TermiNet* DATA COMMUNICATION PRODUCTS

MP MASTER
MA32542

SERVICE INSTRUCTIONS FOR THE MEMOREX 2056 MATRIX TERMINAL GEK-49382

GENERAL ELECTRIC

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The information contained herein does not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to General Electric Company, USA.

TermiNet DATA COMMUNICATION PRODUCTS

SERVICE INSTRUCTIONS FOR THE MEMOREX 2056 MATRIX TERMINAL GEK-49382

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SECTION 1

INTRODUCTION

GENERAL INFORMATION

This instruction is presented as a supplement to GEK-49336, TermiNet 200/LP Printer Service Manual. It contains information pertaining to the unique features of the Memorex 2056 Matrix Terminal.

The Memorex 2056 Matrix Terminal is basically a TermiNet 200/LP Printer with certain unique design features for Memorex applications. The model number of this printer is 3S3320LM0017B1. Reference should be made to the following publications to obtain a complete understanding of the printer.

- S34MP.20-00 Memorex 2056 Matrix Terminal Installation Manual
- S34MP.10-00 Memorex 2056 Matrix Terminal Operator's Manual
- GEK-49336 TermiNet 200/LP Printer Service Manual
- GEK-49331 TermiNet 200 KSR/RO/LP Printer Parts Manual
- GEZ-5789 TermiNet 200 KSR/RO/LP Printer Service Drawings

MAJOR FEATURES

The Memorex 2056 Matrix Terminal contains an operator control panel which is quite different from the one used on standard TermiNet 200/LP Printers. The control panel circuitry is contained on the SMCP/1 circuit board. This board is connected by cable to logic circuitry contained on the SMX interface board. The SMX board interfaces between the external data source and the printer electronics.

Communication between SMX interface board and the data source is via a control box which houses a circuit board (MRX) containing control and device address circuitry. Internal cabling connects the MRX board to the SMX board.

The Memorex 2056 Matrix Terminal features a 9-wire print head to provide greater character formation ability.

This 9-wire print head required some minor design changes to existing printer circuit boards. These redesigned circuit boards are: SMB/3, SXRF/2, SCL/4, SMPA/2 and SPWD/3. In addition to the design changes on these circuit boards, the SMP circuit board contains a set of PROM chips which are programmed to interface the printer electronics with the SMX interface board. Figure 1-2 at the end of Section 1 illustrates the major features of the Memorex 2056 Matrix Terminal.

GENERAL OPERATING CHARACTERISTICS

The general operting characteristics are documented in S34M.10-00 for the TermiNet 200/LP Terminal.

The Memorex 2056 Matrix Terminal standard print character set is the United States and Canada 96 character EBCDIC coded character set. The EBCDIC code chart is shown in Figure 1-1. In addition to the standard print character set, provision is made to allow the printing of 11 different international character sets.

1st HEX DIGIT	2nd HEX DIGIT															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0																
1																
2																
3																
4	SP										¢	.	<	(	+	|
5	&										!	$	*	)	;	¬
6	-	/									¦	,	%	_	>	?
7										`	:	#	@	'	=	"
8		a	b	c	d	e	f	g	h	i						
9		j	k	l	m	n	o	p	q	r						▒
A		~	s	t	u	v	w	x	y	z						
B																
C	{	A	B	C	D	E	F	G	H	I						
D	}	J	K	L	M	N	O	P	Q	R						
E	\		S	T	U	V	W	X	Y	Z						
F	0	1	2	3	4	5	6	7	8	9						

Figure 1-1. United States/Canada EBCDIC Code Character Set.

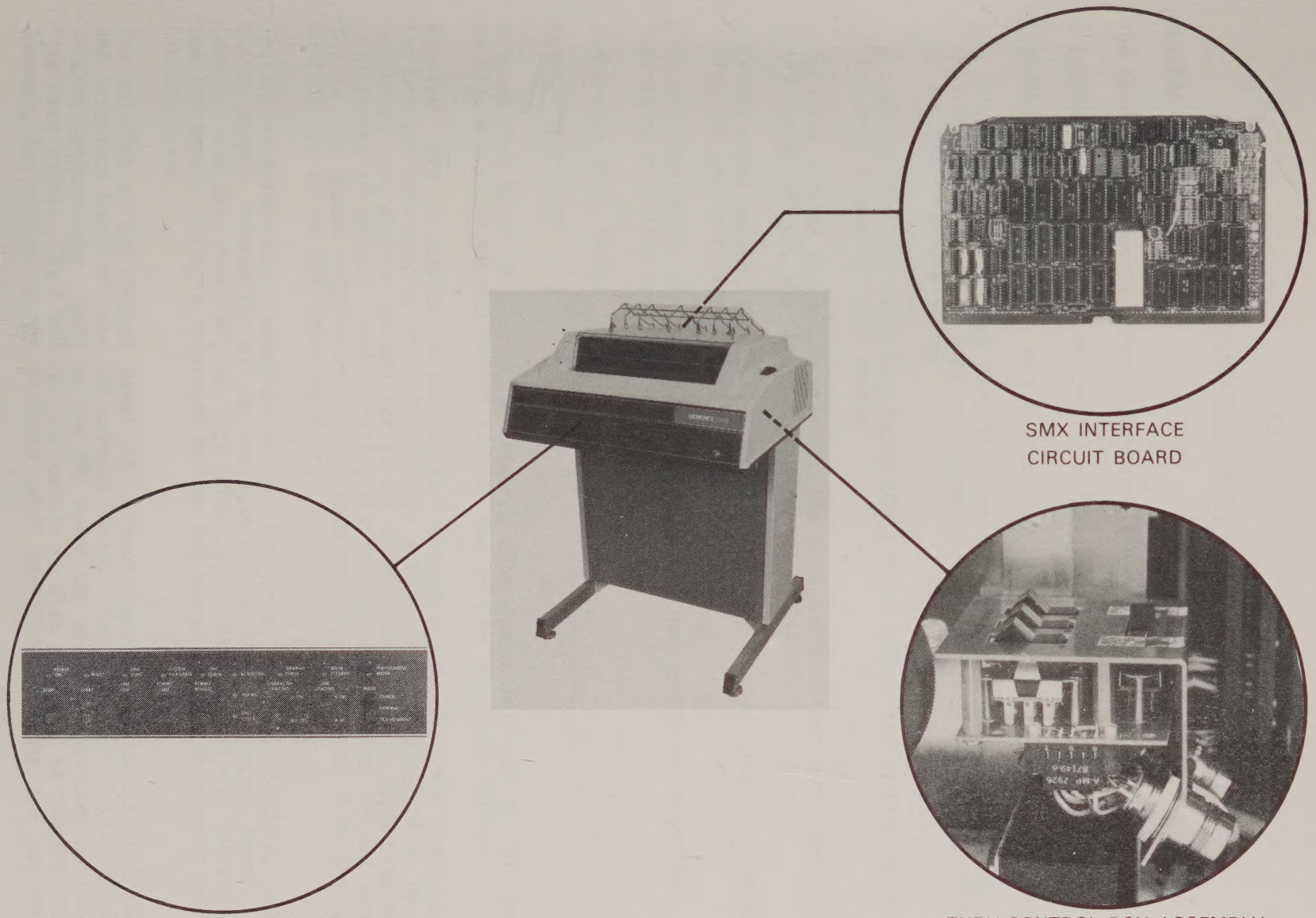
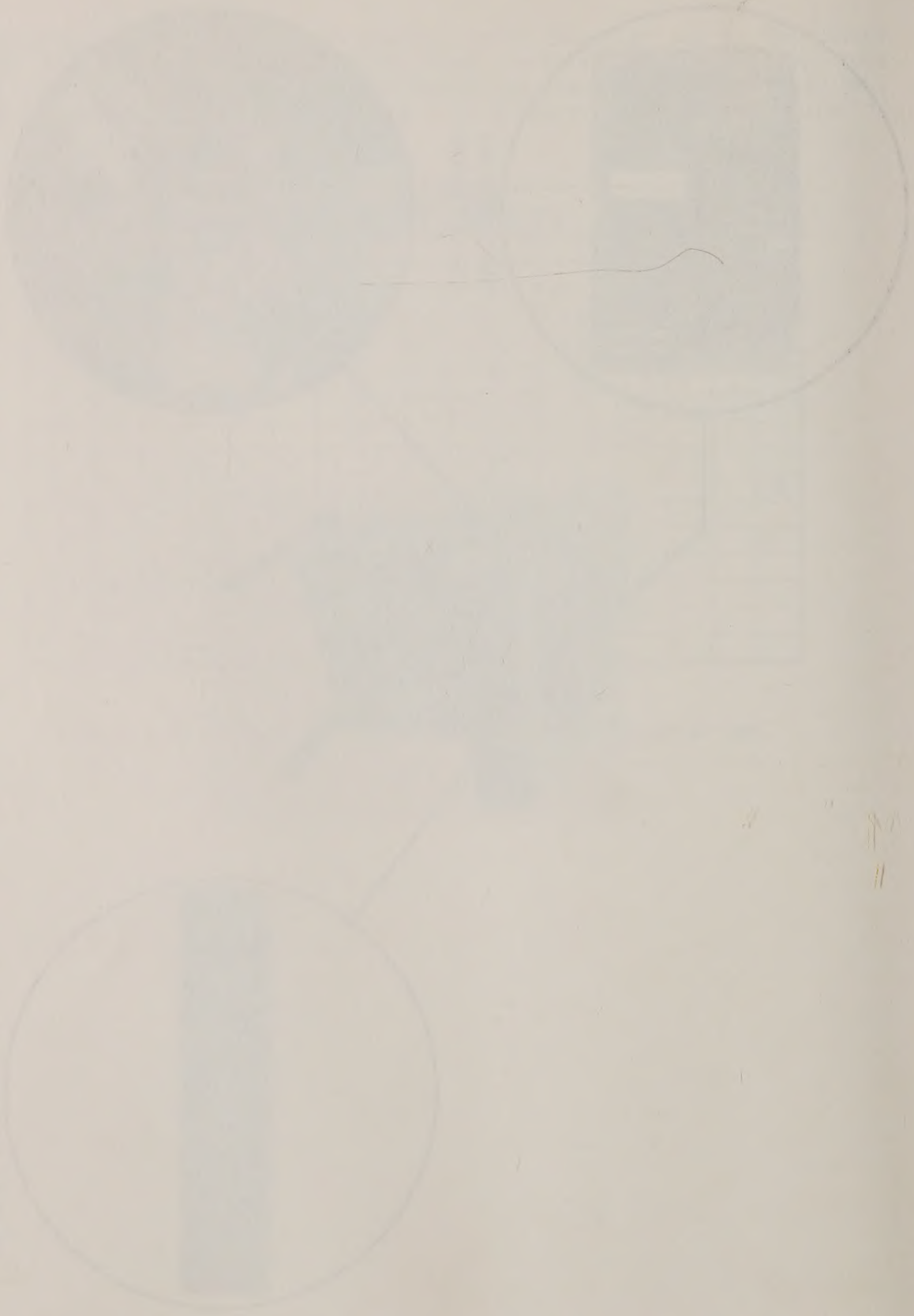


Figure 1-2. Memorex 2056 Matrix Terminal.



SECTION 2

FUNCTIONAL DESCRIPTION

GENERAL INFORMATION

The Memorex 2056 Matrix Terminal contains the following features.

- Custom programmed PROMs on the SMP circuit board.
- Redesigned control panel switch circuitry employing the SMCP circuit board.
- A different group of SPWD circuit boards which allows the +5 volt supply to provide an additional 4 amps of current. The increased current is required by the SMX interface board.
- A customer designed interface board (SMX) which allows the printer to interface with a specific data source.
- An input control box which provides the data cable connections, the station address selection, and the line termination switching.
- Cables which connect the control box and the SMCP control panel circuit board with the SMX interface board.
- A different group of SCL circuit boards which has a 128 character ROM, and contains circuitry for the 9-wire print head.
- A 9-wire print head.

PRINTER FUNCTIONS

A functional block diagram of the Memorex 2056 Matrix Terminal is illustrated in Figure 2-1. A general description of the printer functions follows.

Received data is applied to the printer through a coaxial cable connected to the printer thru-control box. Termination switches on the thru-control box are set based upon whether the printer is the first, last, or only device connected in a string of devices. Additionally, station address switches are set according to the system requirements. The received data is passed from the thru-control box to the SMX interface board.

The SMX interface board commands control functions, sends EBCDIC data, and receives status information all on the data bus to the SMP circuit board. The commands and data transfers are initiated by an interrupt signal generated by the SMX board. Data is requested by the SMP board via status signals sent to the SMX board.

The switches on the control panel SMCP circuit board interconnect to both the SMX interface board and the SMP circuit board. The CHARACTER SPACING and LINE SPACING switches are inputs to the SMP board and are not monitored by the SMX interface board. The FORMS RELEASE switch is also an input to the SMP board; however, the action is not executed until certain conditions are set by the

receipt of the STOP switch signal by the SMX board. Paper out and paper low conditions from the printer are monitored by the SMP board, and the status of each is supplied to the SMX interface board for action.

All forms monitoring and tracking are under the control of the SMX interface board logic. All control panel LED indicators and mode selections are under SMX interface board control.

The SCL/4 circuit board contains a 128 character ROM. 96 of the characters are defined by the US/Canada EBCDIC Code (See Figure 1-1). The 32 low order characters of the ROM are foreign characters. They are controlled by S6 action on the SMP to substitute for characters applied to the SMP board. This action creates 11 foreign character sets for the 96 defined characters.

The 9-wire character formation is controlled by the SCL/4 board in two sets of 7-wires. Either the upper 7 wires or the lower 7 wires may be activated in one of the 9 horizontal dot columns. A maximum of 7 wires per horizontal dot column can be activated. The SCL board decodes which 7 wires to use from the ROM value selected by the input code.

The remainder of the printer circuitry functions in the same manner as is detailed in the Service Manual, GEK-49336. No further discussion will be required herein.

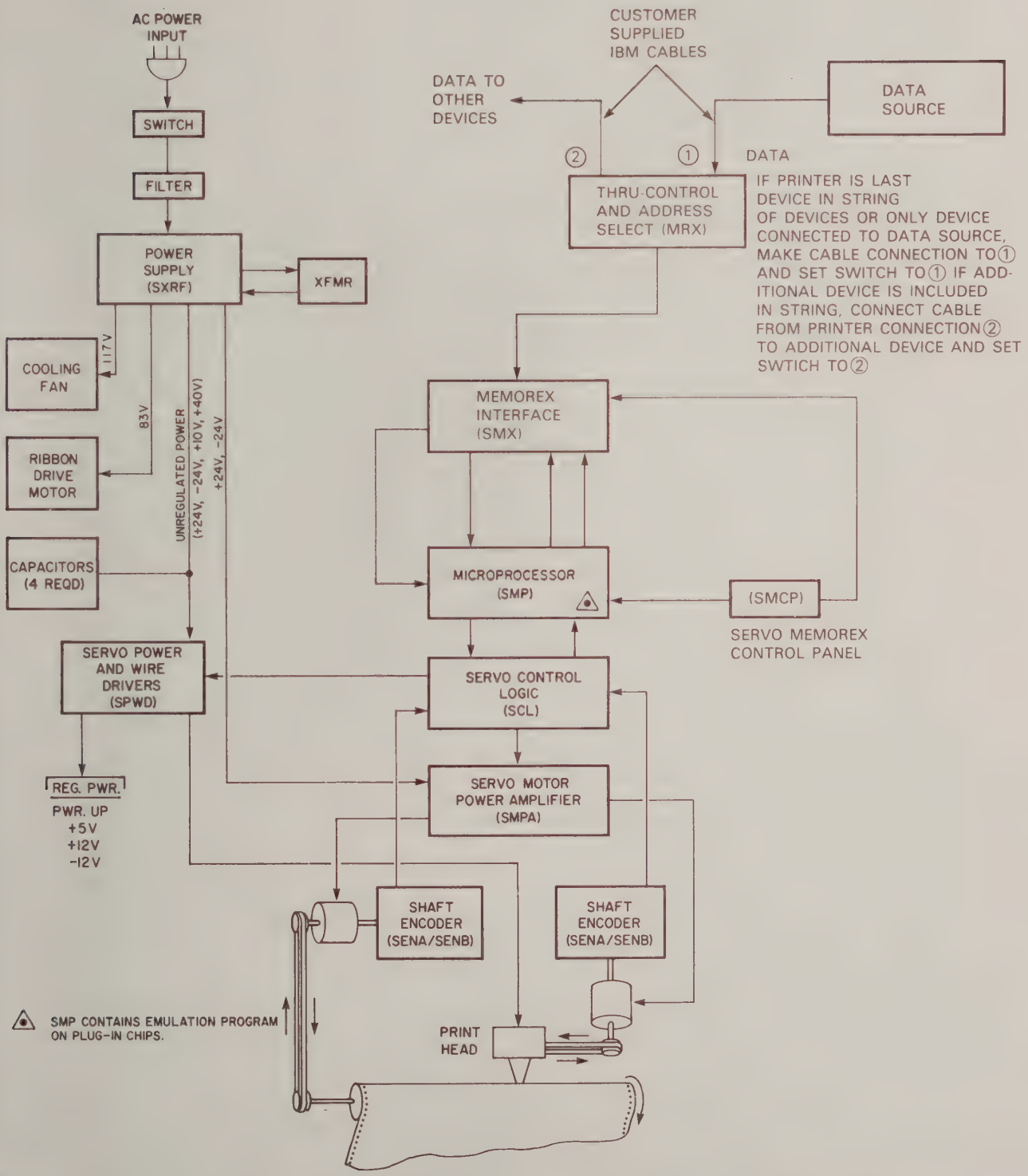


Figure 2-1. Functional Block Diagram of the Memorex 2056 Matrix terminal.

SECTION 3

MAINTENANCE

Maintenance of the Memorex 2056 Matrix Terminal is supported by the basic material found in GEK-49336. Specific details unique to the Memorex unit are contained herein.

SELF TESTING

The printer and interface can be self tested by employing certain built in test exercises. These tests, if desired, can be exercised when the printer is disconnected from the data source.

The printer and interface self tests are entered by switch settings available on the auxiliary control panel located beneath the printer cover (see Figure 3-1).

Exercise the printer self tests per the following procedure.

1. Place the printer in an off line mode by pressing the control panel STOP switch.

2. From the auxiliary control panel, select the PRINTER test.

PRINTER: This switch setting selects an off line test of the printing mechanism. The test is activated when the printer control panel START switch is pressed, and continues until the STOP switch is pressed. The PRINTER test may only be entered when the printer is not ready and when no error conditions exist.
NOTE
The PRINTER test can be entered while the SMX and SMCP circuit boards are removed from the printer. This feature is useful as a trouble-shooting aid.
NORMAL: This switch setting allows normal printer operation to take place.
TEST
INTERFACE
NORMAL
INTERFACE: This switch setting selects an off line test of the printer interface. The test is activated when the printer control panel START switch is pressed, and continues until the STOP switch is pressed. The INTERFACE test may only be entered when the printer is not ready and when no error conditions exist.
These switches are nonfunctional--Do not use.
This LED provides an indication at printer power up time. A continuous on condition indicates a defective PROM or RAM memory circuit on the SMP circuit board. A flashing indication along with an audible alarm tone indicates a servo motor related failure.

Figure 3-1. Auxiliary Control Panel.

3. Press the START switch on the terminal control panel. The printer will execute a bi-directional printing of a test pattern (see Figure 3-2) to test the basic print functions of the unit. Printing will occur at 16.5 characters per inch and at 8 lines per inch. A paper out condition will half the printing when it is detected.

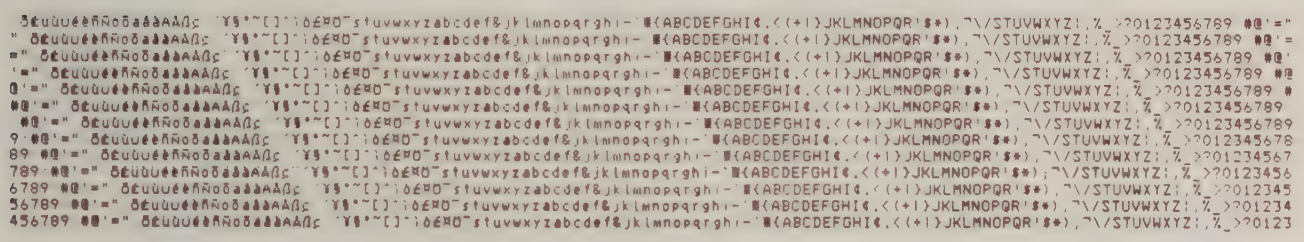


Figure 3-2. Printer Test Printout.

4. When it is determined that printing is occurring properly, press the printer control panel STOP switch to end the PRINTER test.

5. Select the INTERFACE test from the auxiliary control panel.

6. Press the START switch on the printer control panel.

7. The printer interface is automatically tested for the ability to store and transfer data from an internal stored test source to the printing electronics. Printing of printable characters will occur (see Figure 3-3).

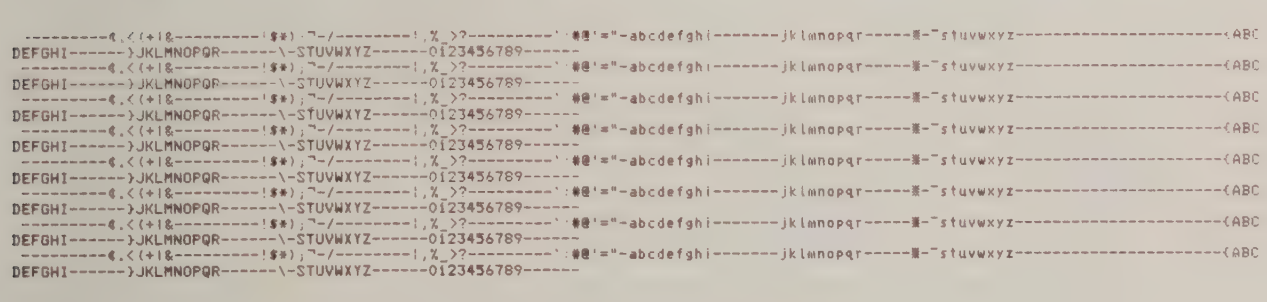


Figure 3-3. Interface Test Printout.

8. When it is determined that the interface is functioning properly, press the printer control panel STOP switch to end the INTERFACE test. Any test data in transition will be printed before the test stops.

By employing the INTERFACE test with the control panel set for a transparent mode, a different test pattern results (see Figure 3-4). This test pattern lists the US/Canada EBCDIC code set and the hexadecimal code values of each character. For any hex values not assigned to a character, a hyphen is printed. By setting strap switch S6 on the SMP board to select a desired international character set, the transparent mode INTERFACE test will yield a listing of the desired international character set along with the hex value of the character.

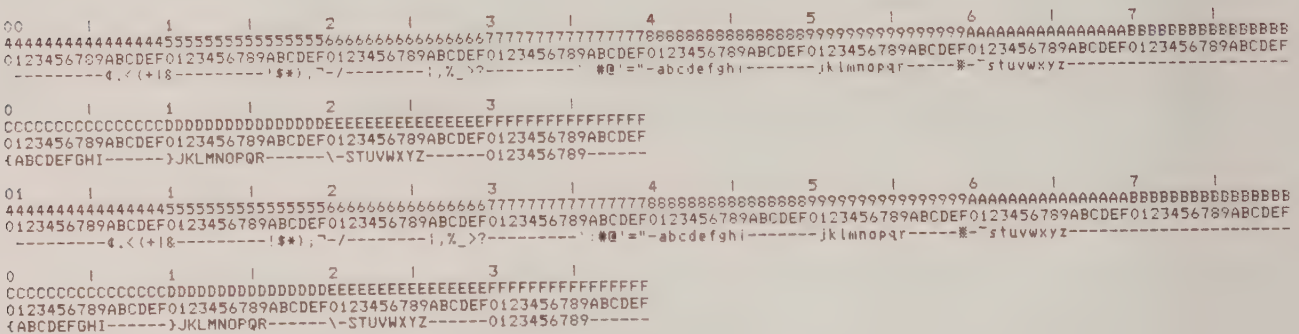


Figure 3-4. Interface Transparent Mode Printout.

SYSTEM TEST

In addition to the internal self tests discussed above, an IBM system test can be exercised. Exercise the system test from the IBM 5251 display station per the following procedure.

1. Set the AC power switch to on.
2. Set the MODE switch to NORMAL and press the START switch.
3. Perform following steps at the IBM display console.
   a. Press Test Request (displays the Prime Option Menu).
   b. Press 2 (for terminal verification display).
   c. Press Enter.
   d. Key in terminal address (a letter followed by a number).
   e. Press Enter.
   f. Key in the number of times print test is to be run.
   g. Press Enter.
   h. If an error is received while doing this test, press C to return to Prime Option Menu.

4. If test is successful, the Figure 3-5 printout will be received.

Figure 3-5. System Test Printout.

TROUBLESHOOTING

PROBLEM DETERMINATION SEQUENCE

The verification of a failure in the printer is effected by performing the sequence given below.

Turn on the printer AC power switch to cause the printer to perform an automatic power-on diagnostics test. The test lasts approximately 6 seconds. If there are no power up problems encountered, the control panel lights turn on and off according to the following sequence.

a. All lights turn on.

b. All lights (except the POWER ON light) turn off.

c. The READY light and lights 1 through 5 turn on.

d. The READY light and lights 1 through 5 turn off sequentially from left to right.

After the power-on diagnostics are complete, the control panel indicator lights are left in the state illustrated in Figure 3-6.

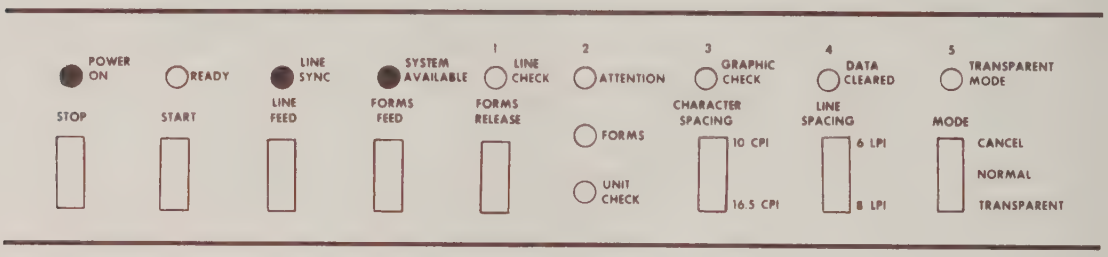


Figure 3-6. Power Up Test Indication.

Any resulting light condition other than that illustrated above is indicative of a possible printer failure, and should be analyzed as such.

LED INDICATIONS

In addition to the control panel LED indications discussed previously, the LED on the auxiliary control panel indicates certain printer failures. This LED will be set to a steady on state should a memory chip (RAM or PROM failure be detected on the SMP circuit board. The LED will be cycled on and off and an audible alarm will be sounded should a servo motor related failure be detected.

PAPER LOW AND PAPER OUT

Two paper status conditions can be detected by the printer. Low paper is detected when approximately 11 inches (27.94 cm) of paper supply remains. Paper out is detected when the paper supply is depleted.

The printer responds to a detected low paper condition by slowing down the printing speed; however, printing will continue at the lower speed until a paper out condition is detected. When this condition is detected, the printing stops at the bottom of the current form.

Should the SMX board be not present in the printer because of troubleshooting purposes, printing is inhibited as soon as a paper low condition is detected. This action also takes place should the paper low condition be detected during a PRINTER self test.

It is possible for service personnel to disable low paper detection by setting strapping option S1 on the SMP circuit board to an open or away from dot setting. It is very important that this strapping option be exercised if front paper loading is employed without employing the front low paper sensor. Otherwise, the slow printing characteristics of a detected low paper condition will result. If low paper detection is disabled, a paper out condition will result in an immediate stop in printing.

CIRCUIT BOARD STRAPPING

The following tables (Table 3-1 and 3-2) detail the circuit board strapping for the Memorex 2056 Matrix Terminal.

TABLE 3-1

STANDARD STRAPPING FOR MEMOREX 2056 MATRIX TERMINAL

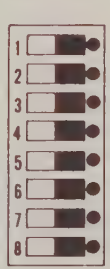
CIRCUIT BOARD	SWITCH	SETTING
SMP	S1	
	S4	
	S6	
SCL/4	J5, J6, J9, J11	IN
	J3, J4, J7, J8, J10	OUT

TABLE 3-2

DESCRIPTION OF CIRCUIT BOARD STRAPPING

PWB	SW	SETTING	FUNCTION
SMP	S1	Closed-toward dot*	Allows low paper check
		Open-away from dot	Disables low paper check
	S4-3	Closed-toward dot	Selects a factory test
		Open-away from dot*	Selects normal printer operation
	S4-4	Closed-toward dot*	Character size and lines per inch will not change when the printer is ready.
		Open-away from dot	Character size and lines per inch will change when the printer is ready or when it is not ready.
	All other S4 switch actuators are function unassigned. The setting of these actuators should be open, or away from the dot, for standardization.		
	S6	S6 allows a character set selection of 11 different foreign character sets and the US/Canada EBCDIC code character set. Switch settings are as shown on the following chart.	

CHARACTER SET	SW6-8	SW6-7	SW6-6	SW6-5	SW6-4	SW6-3	SW6-2	SW6-1
US/CANADA EBCDIC*	C	C	C	C	C	C	C	C
INTERNATIONAL	C	C	C	C	C	C	C	O
US/CANADA/INTERNATIONAL	C	C	C	C	C	C	O	C
AUSTRIA/GERMANY	C	C	C	C	C	C	O	O
BELGIUM	C	C	C	C	C	O	C	C
CANADA(FRENCH)	C	C	C	C	C	O	C	O
FINLAND/SWEDEN	C	C	C	C	C	O	O	C
FRANCE	C	C	C	C	C	O	O	O
ITALY	C	C	C	C	O	C	C	C
JAPAN (ENGLISH)	C	C	C	C	O	C	C	O
SPANISH SPEAKING	C	C	C	C	O	C	O	C
UNITED KINGDOM	C	C	C	C	O	C	O	O

C = Closed or toward dot
O = Open or away from dot

SCL/4	J3 Out, J4 Out, J5 In* J6 In, J7 Out, J8 Out, J9 In.	Allows 2K-bytes of ROM addressability.
	J10 Out, J11 In*	Enables 9-wire print capability.

*Standard Strapping as shipped from the factory.

SECTION 4

REPLACEMENT PARTS

With the exception of the parts listed in this section, the replacement parts for the Memorex 2056 Matrix Terminal are as detailed in the Parts Manual, GEK-49331.

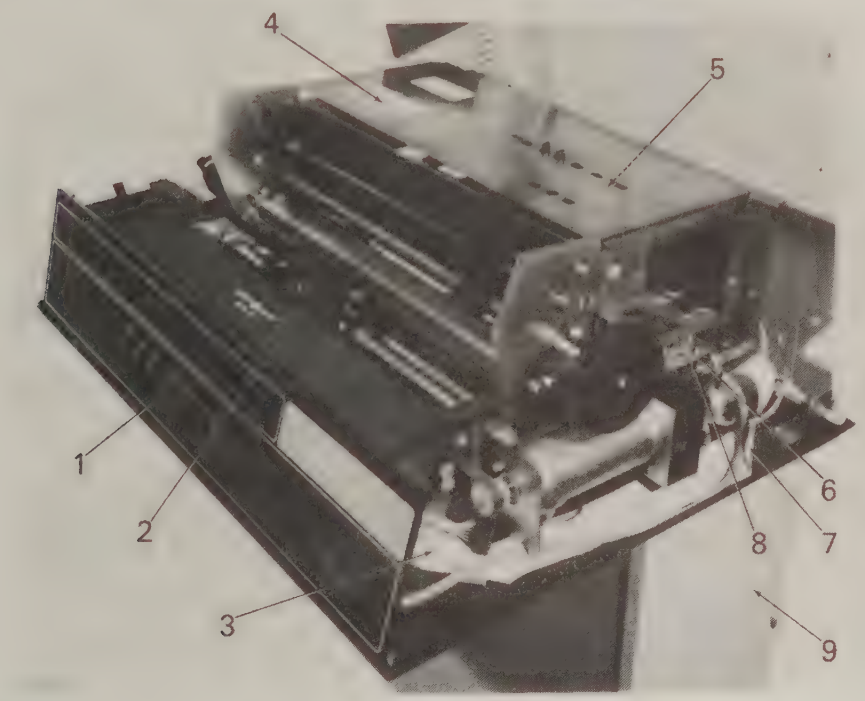


Figure 4-1. Memorex 2056 Matrix Terminal (Model No. 3S3320LM0017B1).

FIGURE	ITEM	DRAWING	DESCRIPTION
4-1	1	44C415064-G12	Control Panel Assembly, includes:
		44A419987-G01	Speaker Sub Assembly
		44A503176-G01	Potentiometer Assembly
		44C502518-G01	SMCP Circuit Board (see Fig. 4-2)
		44C415065-G20	Panel Assembly
4-1	2	44D416069-G01	9-Wire Print Head Assembly
4-1	3	44D416056-G01	Ribbon Cable (for Print Head)
4-1	4	44B502844-G03	Bustle Cover (Auxiliary Control Panel)
4-1	5		Circuit Boards, includes:
		44C417575-G04	SCL/4
		44C417573-G03	SMB/3
		44A430040-G09	SMP (includes program chips)
		44C417578-G02	Unprogrammed Board
		44A430040-G19	Program Chip Set
		44C417577-G02	SMPA, includes:
		K9774741P20	Fuse F1 (1 1/2A)
		44C502517-G01	SMX/1
		44C417572-G03	SPWD/3, includes:
		44A417087-008	Fuse F1-F9 (2A @ 250V)
		44A417087-112	Fuse F10 (7A @ 125V)
		44B418265-G02	SXRF, includes:
		44A418092-001	Fuse F1 & F2 (3A @ 250V)
		44A518359-003	Fuse F3 (12A @ 250V)
		K9774741P20	Fuse F4 (1 1/2A)
			Fuse F5 & F6 (5A @ 250V)
4-1	6	44B401643-G01	Cable (SMX to Control Panel)
4-1	7	44B401642-G01	Cable (SMX to Thru-Control Box)
4-1	8	44B503359-G01	Thru-Control Box Assembly (see Fig. 4-3)
4-1	9	3S3013FF000B1	Pedestal Assembly
NOT ILLUSTRATED		44C414972-G03	Front Low Paper Switch Kit
		44A410517-G07	Switch and Guide

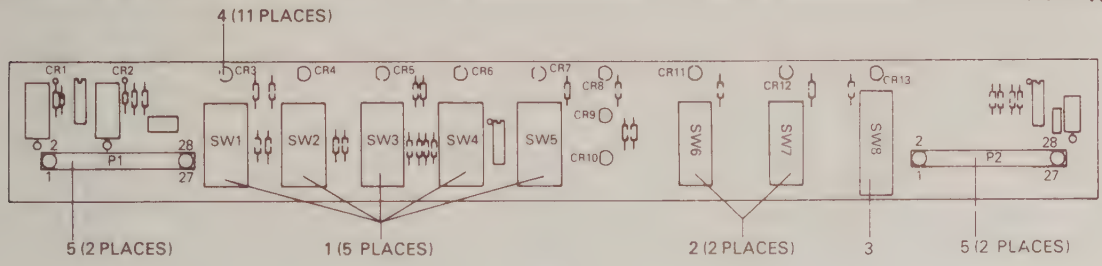


Figure 4-2. SMCP Circuit Board.

FIGURE	ITEM	DRAWING	DESCRIPTION
4-2	1	44A503180-G03	Switch Assemblies S1-S5
4-2	2	44A503180-G02	Switch Assemblies S6,S7
4-2	3	44A503180-G01	Switch Assembly S8
4-2	4	44A418022-001	LED Indicators
4-2	5	44A417027-004	Terminals P1, P2

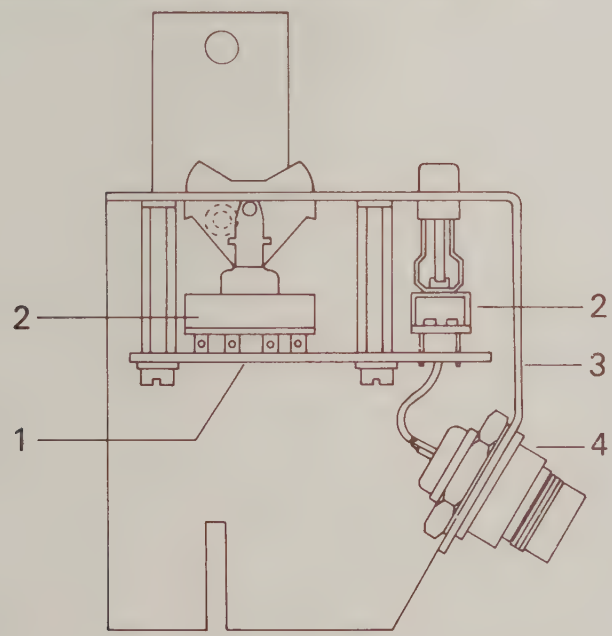


Figure 4-3. Thru-Control Box.

FIGURE	ITEM	DRAWING	DESCRIPTION
4-3	1	44A503218-001	MRX Circuit Board
	2	44A503180-G01	Switch Assemblies S1-S4
	N/I	44A417027-004	Terminal Post 2 (P2) for cable from SMX circuit board
	3	44B503342-G01	Thru-Box Assembly
	4	44A501584-001	Twin Axial Connectors TERM-1, TERM-2

SECTION 5

SERVICE DRAWINGS

In addition to the printer service drawings found in the GEZ-5789 Drawing Package, the following drawings are applicable to the Memorex 2056 Matrix Terminal.

CABLE DRAWINGS

SMX/1 TO CONTROL PANEL	44B401643
SMX/1 TO THRU-CONTROL BOX	44B401642

PRINTED CIRCUIT BOARDS

MRX/1	44A400834
SCL/4	44D401727, Sh. 2, 3
SMB/3	44A400802, Sh. 39-76
SMCP/1	44C402433
SMP/2	44C401564, Sh. 1-3
SMX/1	44C402434, Sh. 1-10
SMPA/2	44C401553, Sh. 1-3
SPWD/3	44D401720, Sh. 1-3
SXRF/2	44C401552, Sh. 3

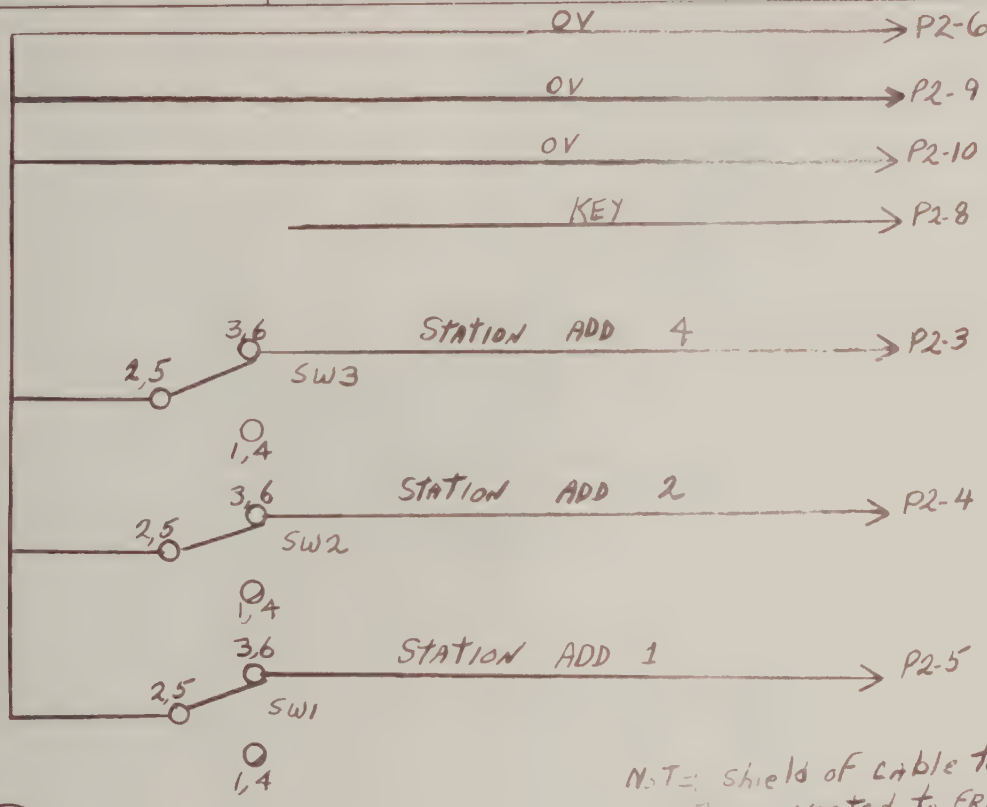
GENERAL ELECTRIC

44A400834
CONT ON SHEET FNL SH NO. 1

REV NO. 44A400834
CONT ON SHEET FNL SH NO. 1

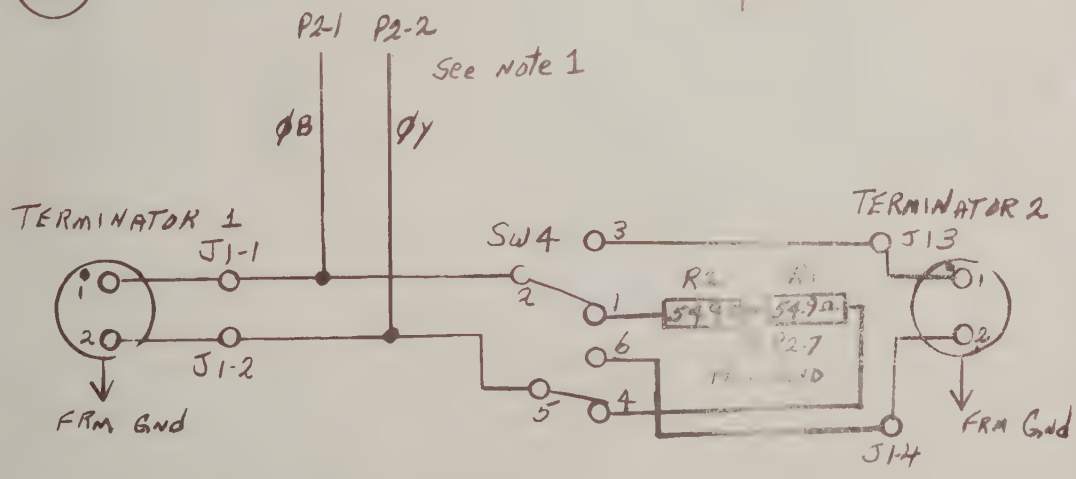
TITLE MEMOREX STATION ADDRESS TERMINATOR MRX/1
FIRST MADE FOR T200

REVISIONS



NOTE: Shield of cable to Be connected to FRAME GROUND

G01



79-6529 C. Zuck DEL 4 19

1	
18	
113 3	
114 2	
77 2	
38	

PRINTS TO

MADE [signature] SEP 20 1979
ISSUED DEC 4 1979

APPROVALS [signature] 7-27-79

DATA COMMUNICATION PRODUCTS BUSINESS DEPT. WAYNESBORO, VA LOCATION

44A400834
CONT ON SHEET FNL SH NO. 1
CODE IDENT NO.

FF-803 WF (5-78)
PRINTED IN U.S.A.

5

TITLE

SIGNAL LIST FOR SMB

CONT ON SHEET 40 SH NO 39

FIRST MADE FOR 44C417573-G02

REVISIONS

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
B	OV	0 VOLT BUS - COMMON GROUND FOR ALL CIRCUITS
B	+5V	+5 VOLT BUS, REGULATED
B	+10V	+10 VOLT BUS, UNREGULATED
B	+12V	+12 VOLT BUS, REGULATED
B	+24V	+24V BUS
B	+40V	+40V BUS
B	-5V	-5V BUS
B	-12V	-12V BUS, REGULATED
B	-24V	-24V BUS
B	+V	
B	1200L-	
B	3.2 MHZ	3.2 MHZ OSCILLATOR OUTPUT ON SCL (TEST POINT)
L	AO-A15	8080 ADDRESS BUS
K	A/NS	ACK/NAK SEND, USED BY STO TO INITIATE MOLC ACK/NAK RESPONSE
B	AA	FRAME GROUND TO DATA SET
K	ABDN-	ANSWERBACK DONE
K	ABDY-	ANSWERBACK DELAY, SHOWS LACK OF ICB WHEN NOT IN LOCAL.
K	ABIN-	ANSWERBACK IS IN.
L	ACK-	ACKNOWLEDGE - INDICATES RECEPTION OF CHARACTER.
L	ACKC	CHARACTER ACKNOWLEDGE
L	ACKL	LINE ACKNOWLEDGE

L = LINE PRINTER VERSION.
K = KSR OR RO VERSION.
B = BOTH LP AND K.

PRINTS TO

113[2], 114, 71,77 79[3],38[2] 41,119 82[2]

MADE BY	APPROVALS	DIV OR DEPT.	
A.C. Hupp 2/3/78	6-16-78	DCPBD	44A400802
ISSUED JUN 22 1978		Waynesboro, Va. LOCATION	CONT ON SHEET 40 SH NO 39

CODE IDENT NO

FF-803-WA (11-78) PRINTED IN U.S.A.

TITLE
SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
L	ACKLC	LINE-CHARACTER ACKNOWLEDGE
K	ALFS	AUTOMATIC LINE FEED SWITCH
K	AUTO	MULTIPLEXED SIGNAL. PH1 GIVES AUTOMATIC LF AFTER CR; PH2 GIVES AUTOMATIC CR AFTER LF.
B	B0-B7	BIT TIME MULTIPLEXED DATA BUS. SHUTTLES INFORMATION BETWEEN CHIPS AND BOARDS.
B	BA	TRANSMITTED DATA TO DATA SET.
K	BAIN-	BA INHIBIT
B	BB	RECEIVED DATA FROM DATA SET
K	BDS	BID STROBE FROM LOCAL DATA SOURCES TO SRT CHIP. INITIATES CHARACTER TRANSMISSION
L	BINT-	BUSED INTERRUPT TO 8080 FROM SIF
K	BKLP-	BREAK LAMP LEAD TO KEYBOARD LED.
K	BKPB-	BREAK PUSHBUTTON FROM KYBD.
B	BLANK	NOTHING ON MOTHERBOARD CONNECTED TO THESE PINS.
K	BRS-	BAUD RATE STROBE, OCCURS DURING STOP BIT, SAMPLES SDO.
B	BUSY-	BUSY INDICATES FULL/NOT FULL STATUS OF PRINTER FIFO MEMORY.
B	CA	REQUEST TO SEND, TO DATA SET.
B	CAEC-	CARRIAGE ADVANCE ERROR (COARSE) D/A CONVERTER INPUT.
B	CAEF-	CARRIAGE ADVANCE ERROR (FINE) D/A CONVERTER INPUT.
B	CAGC	CARRIAGE ADVANCE GAIN CONTROL SIGNAL.
B	CAT--	CARRIAGE ADVANCE TACHOMETER D/A CONVERTER INPUT.

113[2]
114,
71,77
79[3],38[2]
41,119
82[2]

PRINTS TO

MADE BY A.C. Hupp 2/15/78
ISSUED JUN 22 1978
APPROVALS GAB 6-16-78
DCPBD DIV OR DEPT.
Waynesboro, Va. LOCATION
44A400802
CONT ON SHEET 41 SH NO 40
CODE

TITLE
SIGNAL LIST FOR SMB

CONT ON SHEET 42 SH NO. 41

FIRST MADE FOR 44C417573-G02

REVISIONS

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
B	CB	CLEAR TO SEND, FROM DATA SET.
B	CC	DATA SET READY, FROM DATA SET.
B	CCUR	CARRIAGE (MOTOR) CURRENT SIGNAL (TEST POINT)
B	CD	DATA TERMINAL READY, TO DATA SET.
B	CE	RING INDICATOR, FROM DATA SET.
B	CER	CARRIAGE ERROR - ANALOG CARRIAGE SERVO POSITION ERROR (TEST POINT)
B	CF	CARRIER DETECT, FROM DATA SET.
B	CFOT-	CHARACTER FOLDOVER TEST INPUT TO SCL.
B	CHAD-	CHANGE ADDRESS TO ASCII CHARACTER GENERATOR.
B	CINH	GATES OFF SCL 3.2 MHz OSC. (TEST SIGNAL)
B	CMTR+	CARRIAGE MOTOR AMPLIFIER OUTPUT
B	CMTR-	CARRIAGE MOTOR AMPLIFIER COMMON
B	COSW-	COVER OPEN SWITCH
B	CPHA-	PHASE A OF CARRIAGE MOTOR ENCODER
B	CPHB-	PHASE B OF CARRIAGE MOTOR ENCODER
B	CREC	CARRIAGE RETURN ERROR COARSE D/A CONVERTER INPUT.
B	CREF	CARRIAGE RETURN ERROR FINE D/A CONVERTER INPUT.
B	CRT	CARRIAGE RETURN TACHOMETER D/A CONVERTER INPUT.
L	D5	8080 STATUS SIGNAL AT START OF INSTRUCTION CYCLE.
L	DATA0-7	CHARACTER BITS FROM DATA SOURCE.
L	DB0-7	8080 DATA BUS

PRINTS TO
113^{2},
114,
71,77
79^{3},38^{2}
41,119
82^{2}

MADE BY A.C. Hupp 2/15/78
ISSUED JAN 22 1979
APPROVALS GAB 6-16-78
DCPBD — DIV OR DEPT.
Waynesboro, Va. — LOCATION
44A400802
CONT ON SHEET 42 SH NO 41
CODE IDENT NO

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
L	DBIN	DATA BUS IN, 8080 SIGNAL
B	DECR-	DECREMENT FRINGE COUNTER IN SRVO CHIP TO COMPENSATE FOR PRINTHEAD WIRE FLIGHT TIMES DURING ACCELERATION AND DECELERATION.
K	DEOT	DATA LINK ESCAPE END OF TRANSMISSION. DECODED ON MOLC TO AUTOMATICALLY HANG UP TELEPHONE VIA SIGNAL CD ON SIO.
K	DISA1	DISABLE STO1. SIGNAL FROM STO2 TO DISABLE STO1 TO PERMIT DUAL STO BOARDS.
K	DISA2	DISABLE STO2. SIGNAL FROM STO1 TO DISABLE STO2 TO PERMIT DUAL STO BOARDS.
B	DISAS	DISABLE SERVO SIGNAL. ALLOWS OPERATOR MOVEMENT OF PAPER.
L	DISDMA-	DISABLE DMA
L	DISMEM-	DISABLE MEMORY
L	DLY-	A 3 MICROSECOND ACTIVE LOW PULSE IMMEDIATELY FOLLOWING CHARACTER STROBING INTO PRINTER.
L	DMAW-	DMA WRITE
K	DSRLP-	DATA SET READY LAMP
K	DTBK-	DETECT BREAK FROM BB OR MCI.
L	EDG1	EDGE ONE - EXTERNAL SIGNAL WHICH TRIGGERS A LATCH WHENEVER AN EDGE OCCURS.
K	EOT-	END OF TRANSMISSION
K	ESI-	ESCAPE INHIBIT
B	FAULT-	OUTPUT OF AN SMPA PROTECTION LATCH
L	FF2	FLIP-FLOP TWO, SIF TIMING CONTROL SIGNAL
K	FFPB	FORM FEED PUSH BUTTON
K	FISCF	FILTERED INTERNAL SCF.

REVISIONS

PRINTS TO
113[2]
114,
71,77
79[3],38[2]
41,119
82[2]

TITLE
SIGNAL LIST FOR SMB

CONT ON SHEET 44 SH NO. 43
FIRST MADE FOR 44C417573-G02

REVISIONS

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
K	FLDP-	FULL DUPLEX SIGNAL FROM INHIBIT PRINT SWITCH.
B	GPH1	GENERATE PHASE 1, PHASE 1 CLOCK DRIVER INPUT.
B	GPH2	GENERATE PHASE 2, PHASE 2 CLOCK DRIVER INPUT.
K	HIPB-	HERE IS PUSHBUTTON
L	HLDD	8080 HOLD STATE
B	HMOV-	HORIZONTAL MOVE - PHASE 1 GATED.
B	HOLD-	HOLD CURRENT CONTROL SEQUENCE FOR TAB OR ANSWERBACK ACTION.
L	HREQ	HOLD REQUEST FOR 8080.
B	HRST	HORIZONTAL REST
B	HRTM	HORIZONTAL READY TO MOVE
K	HS	HORIZONTAL SPACING
B	HSZ1	HORIZONTAL SIZE 1
B	HSZ2	HORIZONTAL SIZE 2
K	HTM	HORIZONTAL MOVE
L	I/OR-	I/O READ
L	I/OW-	I/O WRITE
K	IBB-	INTERNAL BB
K	IBBI-	INTERNAL BB INHIBIT
K	IBKLP-	INTERNAL BREAK LAMP
K	ICO1-38	INTERCONNECTION OF SMB POINTS - NOT PRESENTLY USED.
K	ILVS-	INTERNAL LOW VOLTAGE SYNCHRONIZED WITH PH2.
B	INCR-	INCREMENT SRVO FRINGE COUNTER.
L	INT	INTERRUPT SIGNAL TO 8080
1	INTE	INTERRUPT ENABLE SIGNAL FROM 8080

80-9014 LRB JUN 6 1980

PRINTS TO
113 2
114
71,77
79 3
,119
82 2

MADE BY	APPROVALS	DIV OR DEPT.	
A.C. Hupp 2/15/78	GAB 6-16-78	DCPBD	44A400802
ISSUED JUN 22 1978		LOCATION Waynesboro, Va.	CONT ON SHEET 44 SH NO 43

CODE IDENT NO 71

FF-003-WA (11-78) PRINTED IN U.S.A.

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
B	KEYFIELD	PWB KEYING FIELD PIN, NO CONN. TO OTHER POINTS.
B	KEYING	PWB KEYING, NO PIN IN MOTHERBOARD.
K	KINH-	KEYBOARD INHIBIT
L	KSR1-9	KSR RUNS ON SMB, NOT USED ON LINE PRINTER.
L	LED0-	READY LED ON FRONT PANEL
L	LED1-	ON LINE LED
L	LED2-	LOW PAPER LED
L	LED3-	ALARM LED
L	LEV1-LEV4	CONTROL SIGNALS TO PRINTER
B	LFER	LINE FEED ERROR
K	LFPB-	LINE FEED PUSHBUTTON.
K	LOCAL-	LOCAL P.B.
L	LOCK-	LOCK SIGNAL
L	M3C00-	SIF RAM ENABLE
K	MCI	MULTIPLEXED CONTROL INPUT
K	MCLR-	MACHINE CLEAR
K	MCO-	MULTIPLEXED CONTROL OUTPUT
L	MCT-	MEMORY CYCLE TIME PULSE
L	MEMR-	MEMORY READ
L	MEMW-	MEMORY WRITE
K	MTD	MOTOR DRIVE SIGNAL TO LED
K	MTPB-	MOTOR PUSHBUTTON
B	ODIS-	OVERCURRENT DISABLE
L	OUT1-OUT7	PRINTER STATUS OUTPUT LINES.

REVISIONS

PRINTS TO

113[2]
114,
71,77
79[3],38[2]
41,119
82[2]

TITLE
SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
B	PAEC-	PAPER ADVANCE ERROR, COARSE
B	PAEF-	PAPER ADVANCE ERROR, FINE
B	PAGC	PAPER ADVANCE GAIN CONTROL
B	PAT-	PAPER ADVANCE TACHOMETER
L	PBO-	CONTROL PANEL ON/OFF LINE SWITCH
L	PB1-	CONTROL PANEL TEST SWITCH
L	PB2-	CONTROL PANEL LOW PAPER OVERRIDE SWITCH.
L	PB3-	CONTROL PANEL ONE SWITCH
L	PB4-	CONTROL PANEL TWO SWITCH
L	PB5-	CONTROL PANEL LINE FEED SWITCH.
L	PB6-	CONTROL PANEL FORMFEED SWITCH
L	PB7-	CONTROL PANEL FORM RELEASE SWITCH
B	PCUR	PAPER MOTOR CURRENT
K	PCX-	PRINT CONTROL MULTIPLEXED
B	PER	PARITY ERROR
K	PH1-	LOGIC PHASE 1 CLOCK
K	PH2-	LOGIC PHASE 2 CLOCK
K	PH2T	PHASE 2 TEST
L	PH2TTL	PHASE 2 TTL SIGNAL FOR SYNCHRONIZATION
B	PLSW	PAPER LOW SWITCH
B	PMTR+	PAPER MOTOR POSITIVE LEAD
B	PMTR-	PAPER MOTOR NEGATIVE LEAD
K	POLP-	PAPER OUT LAMP
B	POSW-	PAPER OUT SWITCH
B	PPHA-	PAPER MOTOR SHAFT ENCODER PHASE A

PRINTS TO
113[2]
114,
71,77
79[3],38[2]
41,119
82[2]

MADE BY A.C. Hupp 2/15/78
ISSUED JUN 22 1978
APPROVALS GAB 6-16-78
DCPBD
DIV OR DEPT.
Waynesboro, Va.
LOCATION
44A400802
CONT ON SHEET 46 SH NO 45
CODE IDENT NO

FF-000-104 (11-75) PRINTED BY U.S.A.

TITLE

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
B	PPHB-	PAPER MOTOR SHAFT ENCODER PHASE B
B	PREC-	PAPER RETURN ERROR, COARSE
B	PREF	PAPER RETURN ERROR, FINE.
B	PRT	PAPER RETURN TACHOMETER
L	PUL1	PULSE 1 DETECT.
B	PWON	POWER ON.
B	PWRUP	POWER UP
K	RATE1-	RATE1 SIGNAL FROM BAUD RATE SWITCH
K	RATE2-	RATE2 SIGNAL FROM BAUD RATE SWITCH
K	RDCC-	READ COLUMN COUNT
K	RDLP-	READY LAMP
L	RDYIN	READY INPUT
B	RENB	CHARACTER ROM ENABLE
L	RSET	RESET SIGNAL TO 8080
L	RESIN-	RESET INPUT
B	RIBR-	RIBBON RELAY CONTROL SIGNAL
B	RMLP-	RIGHT MARGIN LAMP
B	RMSW-	RIGHT MARGIN SWITCH
K	RS-	RECEIVE SAMPLE
B	SCA	SECONDARY CA
B	SCF	SECONDARY CF
K	SDO-	SERIAL DATA OUT
K	SEL2-	SELECT #2 STO PWB
L	SMP1	INPUT CHARACTER STROBE

PRINTS TO

113^{2}

114,

71,77

$79^{3}, 38^{2}$

41,119

82^{2}

MADE BY	APPROVALS		DIV OR DEPT.	
A.C. Hupp 2/15/78	GAB 6-16-78	DCPBD		44A400802
ISSUED JUN 22 1978		Waynesboro, Va	LOCATION	CONT ON SHEET 47 SH NO 46

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
L	SPARE1-SPARE8	SMB INTERCONNECTION NOT PRESENTLY USED.
B	SPKR-	SPEAKER INPUT LEAD
B	STALL-	STALL
K	STAT-	STATUS
L	STB	STROBE INPUT
B	STRB-	STROBE SIGNAL FROM CARRIAGE SERVO LOGIC TO ROM ENABLE TIMER ON SPWD
L	SYNC	8080 INDICATION OF BEGINNING OF EACH PROCESSOR MACHINE CYCLE.
K	SYNC-	SYNCHRONIZE LOGIC REFERENCE PULSE.
K	TDB-	TRANSMIT DATA BUS
B	TEST 1	RESERVED FOR PWB TESTING
B	TEST 2	RESERVED FOR PWB TESTING
K	TL	TEST LOAD (FOR PWB TESTING ONLY)
K	TOF-	TOP OF FORM
K	TOFS-	TOP OF FORMS
K	TR1,TR2	TRANSMIT-RECEIVE INPUTS
K	TRSP-	TRANSPARENCY SWITCH
K	TS-	TRANSMITTED SAMPLE PULSE
K	TS1	RESERVED FOR PWB TESTING
K	TS2	RESERVED FOR PWB TESTING
K	TS4	RESERVED FOR PWB TESTING
K	TTB-	TRANSMIT TRAVEL BIT
L	UNUSED 1-3	NO CONNECTION TO SMB PIN
B	VMOV-	VERTICAL MOVE. PHASE 1 GATED BY VTM.

REVISIONS

PRINTS TO
113[2]
114,
71,77
79[3],38[2]
41,119
82[2]

SIGNAL LIST FOR SMB

PRINTER	SIGNAL	TN200 SIGNAL LIST DEFINITION
B	VRST-	VERTICAL REST
B	VRTM-	VERTICAL READY TO MOVE
K	VS	VERTICAL TRAVERSE
K	VTM-	VERTICAL MOVE FROM PRINT CONTROL OR TAB.
K	VTPB-	VERTICAL TAB PUSHBUTTON
B	WAIT	WAIT SIGNAL
B	WD1-WD9	WIRE DRIVER CONTROL LINES
B	WG-	WRITE GENERATOR
B	WP1+,WP9+	WIRE DRIVER POWER LEADS, NEGATIVE
B	WP1-,WP9-	WIRE DRIVER POWER LEADS, NEGATIVE
K	XTC-	XMIT TURN CONTROL

REVISION

GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

44A400802 CONT ON SHEET 50 SH NO. 49

REVISIONS

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

PRINTS TO: 113[2], 114, 71,77, 79[3],38[2], 41,119, 82[2]

44A400802 CONT ON SHEET 50 SH NO. 49 CODE IDENT NO.

DCPBD Waynesboro, Va.

MADE BY A.C. Hupp 2/3/78

6-16-78

REV NO.

CONT ON SHEET 50 SH NO. 49

SIGNAL	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
0V	A19	A01	A02	A01	A02	A02	01	01	59	52	07	21	22	01		02	02	
0V	A20	B01	B01	B02	A60	A60	60	60					23	02		03	03	
0V	A21	B28	B30	B59	B02	B02								03				
0V	A22	B29			B59	B59								04				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
0V	A23	B30												05				
0V	A24													06				
0V	B01																	
0V	B02																	
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+5V	A60	A30	B02	A59	A59	A59	59	59	54	54		25	25	20		01	01	
+5V	B03	B02		B04	B04	B04							26	22				
+5V	B04													24				
+5V	B05													26				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+5V	B06																	
+10V	A35			B18	A25	A25							02	28				
+10V	A36																	
+10V	A37																	
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+10V	A38																	
+10V	A39																	
+10V	A40																	
+10V	B22																	
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+10V	B23																	
+10V	B24																	
+12V	A59	B05	B05	B10	B10	B10	47	47	47	48			04			08	08	
+12V	B09								48									
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+12V	B10																	
+24V	B27	B22																
+24V	B28	B23																
+24V		B24																
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+40V	A41																	
+40V	A42																	
+40V	A43																	
+40V	A44																	
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+40V	A45																	
+40V	A46																	
-5V		B03	B03	B06	B06	B06												
-12V	A58	B04	B04	B08	B08	B08	51	51	53	53		27	27					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
-12V	B07																	
-12V	B08																	
-24V	B29	B25																
-24V	B30	B26																
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

FF-803 WF (8-74) PRINTED IN U.S.A.

GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

113[2], 114, 71,77[3], 79[3],38[2], 41,119, 82[2], PRINTS TO

44A400802 CONT ON SHEET 51 SH NO. 50

SIGNAL	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
-24V		B27																
+V									32		23							
1200L-		B07		B16					33									
3.2MHZ			B09										09					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
A/NS-							45	45		01								
AA					A24	A24					01							
ABDN-							11	11		50								
ABDY-				A42	A57	A57	57	57	60	59			05					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
ABDY-										60								
ABIN-							37	37		49								
ALPS													26					
AUTO-				B56	B56	B56	35	35	55	55								
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
B0-			A01	A02			02	02										
B0-			A41															
B1-			A03	A04			04	04										
B1-			A39															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
B2-			A05	A06			06	06										
B2-			A17															
B2-			A36															
B3-			A07	A08			08	08										
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
B3-			A55															
B4-			A09	A10			10	10										
B4-			A57															
B5-			A11	A12			12	12										
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
B5-			A59															
B6-			A13	A14			14	14										
B6-			A37															
B7-			A15	A16			16	16										
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BA				A17	B39	B39			39		02							
BAIN-				B40	B40	B40			40	40			21	21				
BB				A07	B51	B51			02		03							
BDS				B37					42	03		18	16					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BKLP-				B45								17						
BKPB-				B41					29			08						
BLANK	A54	A18									09			08		05	05	
BLANK	A57	A25	B27								10			12				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK	B18		B28								13			13				
BLANK	B19		B29								14			14				
BLANK	B20									56	15			18				
BLANK	B21										16			23				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

44A400802 CONT ON SHEET 51 SH NO. 50

DCPBD

Waynesboro, Va.

APPROVALS GAB 6-16-78

MADE BY A.C. Hupp 2/13/78

ISSUED JUN 22 1978

REV NO.

CONT ON SHEET 51 SH NO. 50

FF-803 WF (5-74) PRINTED IN U.S.A.

GENERAL ELECTRIC

44A400802 CONT ON SHEET 52 SH NO. 51

TITLE TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

FIRST MADE FOR 44C417573-G02

REVISIONS

113[2] 114, 71,77 79[3],38[2] 41,119 82[2] PRINTS TO

SIGNAL	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK	B25										17							
BLANK	B26										18							
BLANK											21							
BLANK											24							
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK											25							
BLANK											27							
BLANK											28							
BRS-				B58	B58	B58			58	58			13					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BUSY-				B38	B38	B38			38	11								
CA				A15	B43	B43			43		04							
CAEC-		A08	A16															
CAEF-		A10	A20															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CAGC		B09	B11															
CAT-		A09	A18															
CB				A09	B53	B53			04		05							
CC				A13	B57	B57			23		06							
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CCUR		A24																
CD					B37	B37			37		20							
CE				A21	B54	B54	03	03	56		22							
CER		A22																
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CF				A11	B55	B55			11		08							
CFOT-			B24															
CHAD-			B22	B43														
CINH			B08															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CMTR+		B10																
CMTR+		B11														09		
CMTR-		B12																
CMTR-		B13														06		
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
COSW-		A20	A40	A34	A34	A34												
COSW-				A40										27				
CPHA-			B18															
CPHB-			B19													04		
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	07 CMTR	PMTR	SXRF
CREC		A13	A26															
CREF		A12	A24															
CRT		A11	A22															
DECR-		A27	A53															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DEOT-				B22	B22	B22			19	19								
DISA1-							18	19										
DISA2-							19	18										
DISAS			B25	A60														
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

DIV OR DEPT. DCPBD

LOCATION Waynesboro, Va.

APPROVED 6-16-78

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

44A400802 CONT ON SHEET 52 SH NO. 51 CODE IDENT NO.

REV NO. CONT ON SHEET 52 SH NO. 51

FF-803 WF (2-77) PRINTED IN U.S.A.

REVISIONS

PRINTS TO 113,2 114, 71,77 79,3 ,119 82,2

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DSRLP-				B39								13						
DTBK-				B52	B52	B52			06	06			07					
EOT-				B05	B05	B05			05	05								
ESI-				A53	A54	A54	54	54		43								
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
FAULT-		A26																
FFPB-							25	25				02						
FISCF				B20	B20	B20			17	17								
FLDP-				B36	B36	B36			36	36			03	11				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
GPH1			B07	B14	B15	B15												
GPH2			B06	B12	B13	B13												
HIPB-							23	23				04						
HMOV-			A47	A48														
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
HOLD-				B46	B46	B46	39	39	45	45								
HRST-			A43	A44			44	44										
HRTM-			A45	A46			46	46										
HS				A55	A56	A56	56	56	15	15								
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
HSZ1-			A51	A52														
HSZ2-			A49	A50														
HTM				A51	A52	A52	52	52										
IBB-				B21	B21	B21	20	20	20	20								
IBBI-	SPWD	SMPA	SCL	B44	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
IBKLP-				B42	B42	B42			44	44								
IC01					A01	A01												
IC02					A03	A03												
IC03					A04	A04												
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
IC04					A05	A05												
IC05					A06	A06												
IC06					A07	A07												
IC07					A08	A08												
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
IC08					A09	A09												
IC09					A10	A10												
IC10					A11	A11												
IC11					A12	A12												
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
IC12					A13	A13												
IC13					A14	A14												
IC14					A15	A15												
IC15					A16	A16												
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
IC16					A17	A17												
IC17					A18	A18												
IC18					A19	A19												
IC19					A20	A20												
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

GENERAL ELECTRIC

TITLE SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REV NO.

CONT ON SHEET 53 SH NO. 52

DCPBD DIV OR DEPT.

Waynesboro, Va. LOCATION

44A400802 CONT ON SHEET 53 SH NO. 52 CODE IDENT NO.

APPROVALS SMB 6-16-78

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

FF-803 WF (2-77) PRINTED IN U.S.A.

GENERAL ELECTRIC

44A400802

CONT ON SHEET 54 SH NO. 53

REV NO.

TITLE

SIGNAL LIST FOR SMB

CONT ON SHEET 54 SH NO. 53

FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

| | | |

GENERAL ELECTRIC

44A400802 CONT ON SHEET 55 SH NO. 54

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

CONT ON SHEET 55 SH NO. 54

REV NO.

REVISIONS

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

PRINTS TO: 113[2], 114, 71,77, 79[3],38, 41,119, 82[2]

SIGNAL	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
LFER		A21																
LFPB-				B49			15	15				06						
LOCAL-				B50	B50	B50			08	08		12	10					
MCI				A45	A46	A46							11					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
MCLR-				A49	A50	A50	50	50	49	47								
MCO				B13	B14	B14	17	17	12	12								
MT				B53					52			07						
MTPB-				B55								11						
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
ODIS-		B06																
PAEC-		A07	A14															
PAEF-		A05	A10															
PAGC		B08	B10															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
PAT-		A02	A04															
PCUR		A23																
PCX-				A47	A48	A48	48	48										
PER				B25	B25	B25			26	26			15					
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
PH1-				B07			49	49	34	37,38		28	28					
PH2-				B03	B03	B03	53	53	41	41		24	24					
PH2T-			B26							42								
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
PLSW				A38														
PMTR+		B20												25				
PMTR+		B21															06	
PMTR-		B18																
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
PMTR-		B19															09	
POLP-				B54					31									
POSW-				A25								09						
PPHA-			B20				26	26	14	14				10				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
PPHB-			B21														04	
PREC		A06	A12														07	
PREF		A04	A08															
PRT		A03	A06															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
PWON	B11																	
PWRUP	A56	A29	A60	A57			55	55		02		23						
RATE1-				A24	B48	B48							01					
RATE2-				A26	A26	A26								07				
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
RDCC-				A41	A42	A42	42	42						09				
RDLP-				B47					50			15						
RENB	B13		B13															
RIBR-			B23															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

44A400802 CONT ON SHEET 55 SH NO. 54 CODE IDENT NO.

DIV OR DEPT. DCPBD

LOCATION Waynesboro, Va.

APPROVALS: [illegible] 6-16-78

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 [illegible]

FF-803 WF (2-77) PRINTED IN U.S.A.

GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

PRINTS TO: 113², 114, 71,77, 79³,38², 41,119, 82²

44A400802 CONT ON SHEET 56 SH NO. 55

44A400802 CONT ON SHEET 56 SH NO. 55 CODE IDENT NO.

DIV OR DEPT. DCPBD

LOCATION Waynesboro, Va.

APPROVALS: Sms 6-16-78

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 23 1978

REV NO.

CONT ON SHEET 56 SH NO. 55

SIGNAL	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
RMLP-				B60										15				
RMSW-				A18										17				
RS-				A43	A44	A44			27		39							
SCA				A03	B45	B45			03		11							
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
SCA											19							
SCF				A05	B49	B49			01		12							
SDO-				B19	B19	B19				18			17					
SEL2-					B60	B60	07	07	57	57								
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
SPKR-				B57										19				
STALL-	A55	A28	A56	A56														
STAT-				B23	B23	B23			22	22								
STRB-	B12		B12															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
SYNC-				B51					30	51		16	14					
TDB-				B26	B26	B26			25	25		14	12					
TEST1				B33	B33	B33												
TEST2				B34	B34	B34												
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
TL							30	30										
TOF-							05	05										
TOFS-				B35	B35	B35	41	41	35	35								
TR1				A39	A40	A40	40	40										
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
TR2				A37	A38	A38	38	38										
TRSP-				B24	B24	B24			21	21		05	06					
TS-				B15	B16	B16			13	13								
TS1							29	29										
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
TS2							28	28										
TS4							27	27										
TTB-				B48					18			20	19					
VMOV-			A19	A20														
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
VRST-			A35	A36														
VRTM-			A21	A22			22	22		04								
VS				A35	A36	A36	36	36										
VTM-				A23	A22	A22	24	24										
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
VTPB-							21	21				01						
WAIT				B17	B18	B18			16	16		10	08					
WD1	A47		A42															
WD2	A51		A50															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WD3	A48		A44															
WD4	A52		A52															
WD5	A49		A46															
WD6	A53		A54															
	SPWD	SMPA	SCL	SAC	SIF	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

FF-803 WF (2-77)
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GENERAL ELECTRIC

44A400802

CONT ON SHEET 57 SH NO. 56

REV NO.

CONT ON SHEET 57 SH NO. 56

TITLE

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, KSR SIGNAL NAMES.

SIGNAL																
WD7	SPWD	SMPA	SCL	SAC	SIP	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WD8	A50	A48																
WD9	A25	A25																
WG-	A26	A23																
WP1+	SPWD	SMPA	SCL	SAC	SIP	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WP1-	A05	A58		A58											13			
WP2+	A06														14			
WP2-	A13														05			
	A14														06			
WP3+	SPWD	SMPA	SCL	SAC	SIP	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WP3-	A07														11			
WP4+	A08														12			
WP4-	A15														03			
	A16														04			
WP5+	SPWD	SMPA	SCL	SAC	SIP	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WP5-	A09														09			
WP6+	A10														10			
WP6-	A17														01			
	A18														02			
WP7+	SPWD	SMPA	SCL	SAC	SIP	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WP7-	A11														07			
WP8+	A12														08			
WP8-	A01														17			
	A02														18			
WP9+	SPWD	SMPA	SCL	SAC	SIP	SAI	STO	SPAR	SIO	MOLC	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WP9-	A03														15			
XTC-	A04						43	43		23					16			

REVISIONS
113^{2}
114,
71,77
$79^{3},38^{2}$
$41_{2}119$
82^{2}
PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1979

APPROVAL GAB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802

CONT ON SHEET 57 SH NO. 56

CODE IDENT NO.

FF-803 WF (2-77)
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GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-GC2

REVISIONS

REV NO.

CONT ON SHEET 58 SH NO. 57

44A400802 CONT ON SHEET 58 SH NO. 57

44A400802 CONT ON SHEET 58 SH NO. 57

CODE IDENT NO. 71,77 79,38 41,119

PRINTS TO 113 114 82

DIV OR DEPT. DCPBD LOCATION Waynesboro, Va.

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IN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
0V	A19	A01	A02	A01	A02	A02	01	01	59	52	07	21	22	01		02	02	
0V	A20	B01	B01	B02	A60	A60	60	60					23	02		03	03	
0V	A21	B28	B30	B59	B02	B02								03				
0V	A22	B29			B59	B59								04				
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
0V	A23	B30												05				
0V	A24													06				
0V	B01																	
0V	B02																	
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+5V	A60	A30	B02	A59	A59	A59	59	59	54	54		25	25	20		01	01	
+5V	B03	B02		B04	B04	B04							26	22				
+5V	B04													24				
+5V	B05													26				
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+5V	B06																	
+10V	A35			B18	A25	A25							02	28				
+10V	A36																	
+10V	A37																	
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+10V	A38																	
+10V	A39																	
+10V	A40																	
+10V	B22																	
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+10V	B23																	
+10V	B24																	
+12V	A59	B05	B05	B10	B10	B10	47	47	47	48			04		-	08	08	
+12V	B09								48									
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+12V	B10																	
+24V	B27	B22																
+24V	B28	B23																
+24V		B24																
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+40V	A41																	
+40V	A42																	
+40V	A43																	
+40V	A44																	
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+40V	A45																	
+40V	A46																	
+5V		B03	B03	B06	B06	B06												
+12V	A58	B04	B04	B08	B08	B08	51	51	53	53		27	27					
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
+12V	B07																	
+12V	B08																	
+24V	B29	B25																
+24V	B30	B26																
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

REVISIONS

PRINTS TO: 113[2], 114, 71,77, 79[3],38[2], 41,119, 82[2]

44A400802 CONT ON SHEET 59 SH NO. 58

CODE IDENT NO.

GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMR

FIRST MADE FOR 44C417573-G02

DIV OR DEPT. DCPBD

LOCATION Waynesboro, Va.

APPROVALS

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

REV NO.

CONT ON SHEET 59 SH NO. 58

TN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL										
-24V	SPWD SMPA B27	SCL	SMP	SIF	SAI	STO	SPAR	SIO	HAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
+V										
1200L-	B07		B16					32	23	
3.2MHz		B09						33	09	
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
A0			A19	B44	B44			46	46	
A1			B40	B40	B40			40	40	
A2			B25	B25	B25			26	26	21 21
A3			B23	B23	B23			22	22	15
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
A4			B24	B24	B24			21	21	05 06
A5			B42	B42	B42			44	44	
A6			B35	B35	B35	41	41	35	35	
A7			B26	B26	B26			25	25	14 12
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
A8			B38	B38	B38			38	11	
A9			B36	B36	B36			36	36	03 11
A10			A43	A44	A44			27	39	
A11			A49	A50	A50	50	50	49	47	
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
A12			B50	B50	B50			08	08	12 10
A13			B58	B58	B58			58	58	13
A14			B46	B46	B46	39	39	45	45	
A15			B52	B52	B52			06	06	07
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
AA				A24	A24					01
ACK-				B11	B11					
ACKC				A43	A43					
ACKL				A45	A45					
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
ACKLC				A39	A39					
B0-		A01	A02			02	02			
B0-		A41								
B1-		A03	A04			04	04			
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
B1-		A39								
B2-		A05	A06			06	06			
B2-		A17								
B2-		A36								
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
B3-		A07	A08			08	08			
B3-		A55								
B4-		A09	A10			10	10			
B4-		A57								
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF
B5-		A11	A12			12	12			
B5-		A59								
B6-		A13	A14			14	14			
B6-		A37								
	SPWD SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRF

FF-803 WF (2-77) PRINTED IN U.S.A.

GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REV NO.

CONT ON SHEET 60 SH NO. 59

CONT ON SHEET 60 SH NO. 59

44A400802

REVISIONS

PRINTS TO 113, 114, 71,77,79,38, 41,119, 82

CODE IDENT NO. 59

44A400802

CONT ON SHEET 60 SH NO. 59

DIV OR DEPT. DCPBD

LOCATION Waynesboro, Va.

APPROVALS 6-16-78

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

FF-603 WF (2-77) PRINTED IN U.S.A.

TN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
B7-			A15	A16			16	16										
BA				A17	B39	B39			39		02							
BB				A07	B51	B51			02		03							
BINT-				B56	B56	B56	35	35	55	55								
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK	A54	A18									09			08		05	05	
BLANK	A57	A25	B27								10			12				
BLANK	B18		B28								13			13				
BLANK	B19		B29								14			14				
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK	B20									56	15			18				
BLANK	B21										16			23				
BLANK	B25										17							
BLANK	B26										18							
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK											21							
BLANK											24							
BLANK											25							
BLANK											27							
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
BLANK											28							
BUSY-					B41	B41												
CA				A15	B43	B43			43		04							
CAEC-		A08	A16															
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CAEP-		A10	A20															
CAGC		B09	B11															
CAT-		A09	A18															
CB				A09	B53	B53			04		05							
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CC				A13	B57	B57			23		06							
CCUR		A24																
CD					B37	B37			37		20							
CE				A21	B54	B54	03	03	56		22							
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CER		A22																
CF				A11	B55	B55			11		08							
CFOT-'			B24															
CHAD-			B22	B43														
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CINH			B08															
CMTR+		B10														09		
CMTR+		B11																
CMTR-		B12														06		
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CMTR-		B13																
COSW-		A20	A40	A34	A34	A34												
COSW-				A40										27				
CPHA-			B18															
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
																04		

GENERAL ELECTRIC

44A400802
CONT ON SHEET 61 SH NO. 60

REV NO.

CONT ON SHEET 61 SH NO. 60

TITLE

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
CPHB-			B19														07	
CREC		A13	A26															
CREF		A12	A24															
CRT		A11	A22															
D5	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DATA0				A26	A26	A26									09			
DATA1					A01	A01												
DATA2					A03	A03												
DATA3	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DATA4					A04	A04												
DATA5					A05	A05												
DATA6					A06	A06												
DATA7	SPWD	SMPA	SCL	SMP	A07	A07	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DB0					A08	A08												
DB1				B22	B21	B21	20	20	20	20								
DB2				B22	B22	B22			19	19								
DB3	SPWD	SMPA	SCL	B19	B19	B19	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXR2
DB4				SMP	SIP	SAI			17	17						17		
DB5				B20	B20	B20			16	16								
DB6				B17	B18	B18			13	13								
DB7	SPWD	SMPA	SCL	B15	B16	B16			12	12								
DBIN				B13	B14	B14	17	17	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DECR-				SMP	SIF	SAI	STO	SPAR	09	09								
DISAS		A27	A53	B11	B12	B12	09	09	09	09								
	SPWD	SMPA	SCL	A35	A36	A36	36	36										
DISDMA-			B25	A60														
DISMEM-				SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
DLY-					A55	A55												
DMAW-				A53	A54	A54	54	54		43								
	SPWD	SMPA	SCL	A24	B48	B17												
EDC1				SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
FAULT-		A26		A15	A15	A15												
FF2															07			
GPH1			B07	B14	B07	B07												
	SPWD	SMPA	SCL	B15	B15	B15												
GPH2			SMP	SIP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
HLDD			B06	B12	B13	B13												
HMOV-				A47	A48	A48	48	48										
HOLD-			A47	A48	A48	A48												
	SPWD	SMPA	SCL	A45	A46	A46												
HREQ				SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
HRST-			A43	A44	A53	A53									11			
HRTM-			A45	A46			44	44										
HS21-			A51	A52			46	46										
	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

9 JUN 83 1053
4106-88

1	
113 2	
114	
71,77	
79 3	
119	
82 2	

PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GAB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802
CONT ON SHEET 61 SH NO. 60

CODE IDENT NO.

FF-803 WF (2-77)
PRINTED IN U.S.A.

GENERAL ELECTRIC

TITLE: SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

44A400802 CONT ON SHEET 62 SH NO. 61

REVISIONS

113 114 71,77 79 119 82

PRINTS TO

44A400802 CONT ON SHEET 62 SH NO. 61 CODE IDENT NO.

DIV OR DEPT. DCPBD LOCATION Waynesboro, Va.

APPROVALS 6-16-78

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

REV NO.

CONT ON SHEET 62 SH NO. 61

FT-603 WF (2-77) PRINTED IN U.S.A.

IN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
HSZ2-			A49	A50														
I/OR-				B05	B05	B05			05	05								
I/OW-				B09	B09	B09			10	10								
INCR-		A19	A38															
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
INT				A30	A30	A30												
INTE				A23	A22	A22	24	24										
KEYFLD	A28	A14	A27	A27	A27	A27				27								
KEYFLD	A29	A16	A28	A28	A28	A28				28								
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
KEYFLD	A30	A17	A30	A29	A29	A29				29								
KEYFLD	A31	B15	A31	A32	A31	A31				30								
KEYFLD	A32	B16	A32	A33	A33	A33	32	32		31								
KEYFLD	A33	B17	A33	B27	B27	B28	34	34		33								
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
KEYFLD	A34		A34	B28	B28	B29				34								
KEYFLD	B14		B14	B29	B30	B30												
KEYFLD	B16		B15	B30	B31	B31												
KEYFLD	B17		B17	B32	B32	B32												
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
KEYING	A27	A15	A29	A31	A32	A32	31	31	28	32	26	22	18	16		02	02	
KEYING	B15	B14	B16	B31	B29	B27	33	33										
KSR1							45	45		01								
KSR2							11	11		50								
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
KSR3							37	37		49								
KSR4							18	19										
KSR5							19	18										
KSR6							23	23				04						
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
KSR7							13	13	51									
KSR8							05	05										
KSR9							43	43		23								
LED0-				B54					31			09						
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
LED1-				B55								11						
LED2-				B53					52			07						
LED3-				B51					30	51		16	14					
LEV1					A13	A13												
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
LEV2					A14	A14												
LEV3					A11	A11												
LEV4					A10	A10												
LFER		A21																
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
LOCK-					B47	B47												
M3C00-				A51	A52	A52	52	52										
MCT-					A51	A51												
MEMR-				A54	A58	A58	58	58	24	24								
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

GENERAL ELECTRIC

44A400802

CONT ON SHEET 63 SH NO. 62

REV NO.

TITLE

SIGNAL LIST FOR SMB

CONT ON SHEET 63 SH NO. 62

FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR SIO	SAM	
MEMW-				A55	A56	A56	56	56 15	15	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
ODIS-		B06								
CUT1										
OUT1-					A35	A35				
	SPWD	SMPA	SCL	SMP	A37	A37	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
OUT2					SIP	SAI				
OUT3					A23	A23				
OUT4					A21	A21				
OUT5					A20	A20				
	SPWD	SMPA	SCL	SMP	A19	A19				
OUT6					SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
OUT7					A18	A18				
PAEC-					A17	A17				
PAEP-										
	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PAGC		A07	A14							
PAT-		A05	A10							
PB0-		B08	B10							
PB1-		A02	A04							
				B49			15	15		
PB2-				B07			49	49 34		
PB3-	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PB4-				B48				18	3738	
PB5-				B39						
				B45						
	SPWD	SMPA	SCL	B47	SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PB6-				SMP				50		
PB7-				B37				SIO 42	SAM	
PCUR				B41				29	03	
PER		A23								
	SPWD	SMPA	SCL	SMP	A47	A47				
PH2TTL				SIP	SAI	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PH2TTL				B03	B03	B03	53	53 41	41	
PLSW									42	
PMTR+				A38						
	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PMTR+		B20							24	
PMTR-		B21							24	
PMTR-		B18								
POSW-		B19								
				A25						25
	SPWD	SMPA	SCL	SMP	SIP	SAI	26 STO	26 14 SPAR SIO	14 SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PPHA-			B20							06
PPHB-			B21							09
PREC		A06	A12							
PREF		A04	A08							
	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
PRT		A03	A06							10
PUL1					A16	A16				04
PWON										07
PWRUP		B11								
	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP
		A56	A29	A60	A57					
							55	55	02	
									23	
									01	
								SPAR SIO	SAM	D.S. KYBD TAPE MACH HEAD CMTR PMTR SXRP

PRINTS TO

113[2]
114
71,77
79[3],38[2]
41,119
82[2]

MADE BY A.C. Hupp 2/3/78

APPROVALS GAB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802

CONT ON SHEET 63 SH NO. 62

ISSUED JUN 22 1978

CODE IDENT NO

FF-803 WF (2-77)
PRINTED IN U.S.A.

REVISIONS

TN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
RDYIN				A42	A57	A57	57	57	60	59			05					
RDYIN										50								
RENB	B13		B13															
RESET				B01	B01	B01			07	07		19	20					
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
RESIN-				A41	A42	A42	42	42										
RIBR-			B23															
RMLP-				B60														01
RMSW-				A18										15				
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	17 MACH	HEAD	CMTR	PMTR	SXRF
SCA				A03	B45	B45			03		11							
SCA											19							
SCF				A05	B49	B49			01		12							
SLCT					A41	A41												
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
SMP1					A12	A12												
SPARE1							25	25				02						
SPARE2																		
SPARE3					B60	B60	07	07	57	57								
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
SPARE4							21	21				01						
SPARE5							30	30										
SPARE6							29	29										
SPARE7							28	28										
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
SPARE8							27	27										
SPKR-				B57														
STALL-	A55	A28	A56	A56										19				
STB					A49	A49												
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
TRB-	B12		B12															
SYNC				A37	A38	A38	38	38										
TEST1				B33	B33	B33												
TEST2				B34	B34	B34												
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
UNUSED1												26						
UNUSED2												03						
UNUSED3			B26															
VMOV-			A19	A20														
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
VRST-			A35	A36														
VRTM-			A21	A22			22	22		04								
WAIT				A39	A40	A40	40	40										
WD1	A47		A42															
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF
WD2	A51		A50															
WD3	A48		A44															
WD4	A52		A52															
WD5	A49		A46															
	SPWD	SMPA	SCL	SMP	SIF	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE	MACH	HEAD	CMTR	PMTR	SXRF

REV NO.

TITLE: SIGNAL LIST FOR SMB

44C417573-G02

FIRST MADE FOR 63

64

GENERAL ELECTRIC

DCPBD

Waynesboro, Va.

DIV OR DEPT. LOCATION

APPROVED 6-16-78

MADE BY A.C. Hupp 2/3/78

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FF-903 WF (2-77) PRINTED IN U.S.A.

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SIGNAL LIST FOR SMB

CONT ON SHEET 65 SH NO. 64

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FIRST MADE FOR 44C417573-G02

REVISIONS

TN200 SMB SIGNAL LIST, LINE PRINTER SIGNAL NAMES.

SIGNAL													
WD6	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE MACH HEAD CMTR PMTR SXRF
WD7			A53	A54									
WD8			A50	A48									
WD9			A25	A25									
			A26	A23									
WG-	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE MACH HEAD CMTR PMTR SXRF
WP1+			A58	A58									
WP1-			A05										13
WP2+			A06										14
			A13										05
WP2-	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE MACH HEAD CMTR PMTR SXRF
WP3+			A14										06
WP3-			A07										11
WP4+			A08										12
			A15										03
WP4-	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE MACH HEAD CMTR PMTR SXRF
WP5+			A16										04
WP5-			A09										09
WP6+			A10										10
			A17										01
WP6-	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE MACH HEAD CMTR PMTR SXRF
WP7+			A18										02
WP7-			A11										07
WP8+			A12										08
			A01										17
WP8-	SPWD	SMPA	SCL	SMP	SIP	SAI	STO	SPAR	SIO	SAM	D.S.	KYBD	TAPE MACH HEAD CMTR PMTR SXRF
WP9+			A02										18
WP9-			A03										15
			A04										16

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PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GAB 6-16-78

DCPBD DIV OR DEPT.

Waynesboro, Va. LOCATION

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SPWD SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
A01	WP8+	WP8+	A31	KEYFLD	KEYFLD	B01	0V	0V
A02	WP8-	WP8-	A32	KEYFLD	KEYFLD	B02	0V	0V
A03	WP9+	WP9+	A33	KEYFLD	KEYFLD	B03	+5V	+5V
A04	WP9-	WP9-	A34	KEYFLD	KEYFLD	B04	+5V	+5V
A05	WP1+	WP1+	A35	+10V	+10V	B05	+5V	+5V
A06	WP1-	WP1-	A36	+10V	+10V	B06	+5V	+5V
A07	WP3+	WP3+	A37	+10V	+10V	B07	-12V	-12V
A08	WP3-	WP3-	A38	+10V	+10V	B08	-12V	-12V
A09	WP5+	WP5+	A39	+10V	+10V	B09	+12V	+12V
A10	WP5-	WP5-	A40	+10V	+10V	B10	+12V	+12V
A11	WP7+	WP7+	A41	+40V	+40V	B11	PWON	PWON
A12	WP7-	WP7-	A42	+40V	+40V	B12	STRB-	STRB-
A13	WP2+	WP2+	A43	+40V	+40V	B13	RENB	RENB
A14	WP2-	WP2-	A44	+40V	+40V	B14	KEYFLD	KEYFLD
A15	WP4+	WP4+	A45	+40V	+40V	B15	KEYING	KEYING
A16	WP4-	WP4-	A46	+40V	+40V	B16	KEYFLD	KEYFLD
A17	WP6+	WP6+	A47	WD1	WD1	B17	KEYFLD	KEYFLD
A18	WP6-	WP6-	A48	WD3	WD3	B18	BLANK	BLANK
A19	0V	0V	A49	WD5	WD5	B19	BLANK	BLANK
A20	0V	0V	A50	WD7	WD7	B20	BLANK	BLANK
A21	0V	0V	A51	WD2	WD2	B21	BLANK	BLANK
A22	0V	0V	A52	WD4	WD4	B22	+10V	+10V
A23	0V	0V	A53	WD6	WD6	B23	+10V	+10V
A24	0V	0V	A54	BLANK	BLANK	B24	+10V	+10V
A25	WD8	WD8	A55	STALL-	STALL-	B25	BLANK	BLANK
A26	WD9	WD9	A56	PWRUP	PWRUP	B26	BLANK	BLANK
A27	KEYING	KEYING	A57	BLANK	BLANK	B27	+24V	+24V
A28	KEYFLD	KEYFLD	A58	-12V	-12V	B28	+24V	+24V
A29	KEYFLD	KEYFLD	A59	+12V	+12V	B29	-24V	-24V
A30	KEYFLD	KEYFLD	A60	+5V	+5V	B30	-24V	-24V

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PRINTS TO

FF-803 WF (5-74)
PRINTED IN U.S.A.

REVISIONS

SMPA SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
A01	0V	0V	A11	CRT	CRT	A21	LFER	LFER
A02	PAT-	PAT-	A12	CREF	CREF	A22	CER	CER
A03	PRT	PRT	A13	CREC	CREC	A23	PCUR	PCUR
A04	PREF	PREF	A14	KEYFLD	KEYFLD	A24	CCUR	CCUR
A05	PAEF-	PAEF-	A15	KEYING	KEYING	A25	BLANK	BLANK
A06	PREC	PREC	A16	KEYFLD	KEYFLD	A26	FAULT-	FAULT-
A07	PAEC-	PAEC-	A17	KEYFLD	KEYFLD	A27	DECR-	DECR-
A08	CAEC-	CAEC-	A18	BLANK	BLANK	A28	STALL-	STALL-
A09	CAT-	CAT-	A19	INCR-	INCR-	A29	PWRUP	PWRUP
A10	CAEF-	CAEF-	A20	COSW-	COSW-	A30	+5V	+5V
B01	0V	0V	B11	CMTR+	CMTR+	B21	PMTR+	PMTR+
B02	+5V	+5V	B12	CMTR-	CMTR-	B22	+24V	+24V
B03	-5V	-5V	B13	CMTR-	CMTR-	B23	+24V	+24V
B04	-12V	-12V	B14	KEYING	KEYING	B24	+24V	+24V
B05	+12V	+12V	B15	KEYFLD	KEYFLD	B25	-24V	-24V
B06	ODIS-	ODIS-	B16	KEYFLD	KEYFLD	B26	-24V	-24V
B07	1200L-	1200L-	B17	KEYFLD	KEYFLD	B27	-24V	-24V
B08	PAGC	PAGC	B18	PMTR-	PMTR-	B28	0V	0V
B09	CAGC	CAGC	B19	PMTR-	PMTR-	B29	0V	0V
B10	CMTR+	CMTR+	B20	PMTR+	PMTR+	B30	0V	0V

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PRINTS TO

GENERAL ELECTRIC

44A400820 02

REV NO.

CONT ON SHEET 68 SH NO. 67

TITLE

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02 SCL

~~SCL SIGNAL LIST~~

CONT ON SHEET 68 SH NO. 67

KSR PIN	KSR SIGNAL	LP SIGNAL	KSR PIN	KSR SIGNAL	LP SIGNAL	KSR PIN	KSR SIGNAL	LP SIGNAL
A01	B0-	B0-	A31	KEYFLD	KEYFLD	B01	0V	0V
A02	0V	0V	A32	KEYFLD	KEYFLD	B02	+5V	+5V
A03	B1-	B1-	A33	KEYFLD	KEYFLD	B03	-5V	-5V
A04	PAT-	PAT-	A34	KEYFLD	KEYFLD	B04	-12V	-12V
A05	B2-	B2-	A35	VRST-	VRST-	B05	+12V	+12V
A06	PRT	PRT	A36	B2-	B2-	B06	GPH2	GPH2
A07	B3-	B3-	A37	B6-	B6-	B07	GPH1	GPH1
A08	PREF	PREF	A38	INCR-	INCR-	B08	CINH	CINH
A09	B4-	B4-	A39	B1-	B1-	B09	3.2MHZ	3.2MHZ
A10	PAEF-	PAEF-	A40	COSW-	COSW-	B10	PAGC	PAGC
A11	B5-	B5-	A41	B0-	B0-	B11	CAGC	CAGC
A12	PREC	PREC	A42	WD1	WD1	B12	STRB-	STRB-
A13	B6-	B6-	A43	HRST-	HRST-	B13	RENB	RENB
A14	PAEC-	PAEC-	A44	WD3	WD3	B14	KEYFLD	KEYFLD
A15	B7-	B7-	A45	HRTM-	HRTM-	B15	KEYFLD	KEYFLD
A16	CAEC-	CAEC-	A46	WD5	WD5	B16	KEYING	KEYING
A17	B2-	B2-	A47	HMOV-	HMOV-	B17	KEYFLD	KEYFLD
A18	CAT-	CAT-	A48	WD7	WD7	B18	CPHA-	CPHA-
A19	VMOV-	VMOV-	A49	HSZ2-	HSZ2-	B19	CPHB-	CPHB-
A20	CAEF-	CAEF-	A50	WD2	WD2	B20	PPHA-	PPHA-
A21	VRTM-	VRTM-	A51	HSZ1-	HSZ1-	B21	PPHB-	PPHB-
A22	CRT	CRT	A52	WD4	WD4	B22	CHAD-	CHAD-
A23	WD9	WD9	A53	DECR-	DECR-	B23	RIBR-	RIBR-
A24	CREF	CREF	A54	WD6	WD6	B24	CFOT-	CFOT-
A25	WD8	WD8	A55	B3-	B3-	B25	DISAS	DISAS
A26	CREC	CREC	A56	STALL-	STALL-	B26	PH2T-	UNUSED3
A27	KEYFLD	KEYFLD	A57	B4-	B4-	B27	BLANK	BLANK
A28	KEYFLD	KEYFLD	A58	WG-	WG-	B28	BLANK	BLANK
A29	KEYING	KEYING	A59	B5-	B5-	B29	BLANK	BLANK
A30	KEYFLD	KEYFLD	A60	PWRUP	PWRUP	B30	0V	0V

REVISIONS

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MADE BY A.C. Hupp 2/3/78

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APPROVALS EAB 6-16-78

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GENERAL ELECTRIC

44A400802
CONT ON SHEET 69 SH NO. 65

REV NO.

TITLE
SIGNAL LIST FOR SMB
SAC-SMP

CONT ON SHEET 69 SH NO. 68

FIRST MADE FOR SAC-SMP SIGNAL LIST 44C417573-G02

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
A01	0V	0V	A21	CE	CE	A41	RDCC-	RESIN-
A02	B0-	B0-	A22	VRTM-	VRTM-	A42	ABDY-	RDYIN
A03	SCA	SCA	A23	VTM-	INTE	A43	RS-	A10
A04	B1-	B1-	A24	RATE1-	DMAW-	A44	HRST-	HRST-
A05	SCF	SCF	A25	POSW-	POSW-	A45	MCI	HOLD-
A06	B2-	B2-	A26	RATE2-	D5	A46	HRTM-	HRTM-
A07	BB	BB	A27	KEYFLD	KEYFLD	A47	PCX-	HLDD
A08	B3-	B3-	A28	KEYFLD	KEYFLD	A48	HMOV-	HMOV-
A09	CB	CB	A29	KEYFLD	KEYFLD	A49	MCLR-	A11
A10	B4-	B4-	A30	INT	INT	A50	HSZ2-	HSZ2-
A11	CF	CF	A31	KEYING	KEYING	A51	HTM	M3C00-
A12	B5-	B5-	A32	KEYFLD	KEYFLD	A52	HSZ1-	HSZ1-
A13	CC	CC	A33	KEYFLD	KEYFLD	A53	ESI-	DISMEM-
A14	B6-	B6-	A34	COSW-	COSW-	A54	ICD-	MEMR-
A15	CA	CA	A35	VS	DBIN	A55	HS	MEMW-
A16	B7-	B7-	A36	VRST-	VRST-	A56	STALL-	STALL-
A17	BA	BA	A37	TR2	SYNC	A57	PWRUP	PWRUP
A18	RMSW-	RMSW-	A38	PLSW	PLSW	A58	WG-	WG-
A19	ICA-	A0	A39	TR1	WAIT	A59	+5V	+5V
A20	VMOV-	VMOV-	A40	COSW-	COSW-	A60	DISAS	DISAS
B01	ILVS-	RESET	B21	IBB-	DB0	B41	BKPB-	PB7-
B02	0V	0V	B22	DEOT-	DB1	B42	IBKLP-	A5
B03	PH2-	PH2TTL	B23	STAT-	A3	B43	CHAD-	CHAD-
B04	+5V	+5V	B24	TRSP-	A4	B44	IBBI-	DB0
B05	EOT-	I/OR-	B25	PER	A2	B45	BKLP-	PB4-
B06	-5V	-5V	B26	TDB-	A7	B46	HOLD-	A14
B07	PH1-	PB1-	B27	KEYFLD	KEYFLD	B47	RDLP-	PB5-
B08	-12V	-12V	B28	KEYFLD	KEYFLD	B48	TTB-	PB2-
B09	ICF-	I/OW-	B29	KEYFLD	KEYFLD	B49	LFPB-	PB0-
B10	+12V	+12V	B30	KEYFLD	KEYFLD	B50	LOCAL-	A12
B11	ICC-	DB7	B31	KEYING	KEYING	B51	SYNC-	LED3-
B12	GPH2	GPH2	B32	KEYFLD	KEYFLD	B52	DTBK-	A15
B13	MCO-	DB6	B33	TEST1	TEST1	B53	MTD-	LED2-
B14	GPH1	GPH1	B34	TEST2	TEST2	B54	POLP-	LED0-
B15	TS-	DB5	B35	TOFS-	A6	B55	MTPB-	LED1-
B16	1200L-	1200L-	B36	FLDP-	A9	B56	AUTO-	BINT-
B17	WAIT	DB4	B37	BDS	PB6-	B57	SPKR-	SPKR-
B18	+10V	+10V	B38	BUSY-	A8	B58	BRS-	A13
B19	SDO-	DB2	B39	DSRLP-	PB3-	B59	0V	0V
B20	FISCF	DB3	B40	BAIN-	A1	B60	RMLP-	RMLP-

REVISIONS

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PRINTS TO

MADE BY A.C. Hupp 2/3/78
ISSUED JUN 22 1978
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Waynesboro, Va. — LOCATION
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GENERAL ELECTRIC

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REV NO.

CONT ON SHEET 70 SH NO. 69

TITLE

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

CONT ON SHEET 70 SH NO. 69

SIF SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
A01	IC01	DATA0	A21	IC20	OUT3	A41	IC26	SLCT
A02	0V	0V	A22	VTM-	INTE	A42	RDCC-	RESIN-
A03	IC02	DATA1	A23	IC21	OUT2	A43	IC27	ACKC
A04	IC03	DATA2	A24	AA	AA	A44	RS-	A10
A05	IC04	DATA3	A25	+10V	+10V	A45	IC28	ACKL
A06	IC05	DATA4	A26	RATE2-	D5	A46	MCI	HOLD-
A07	IC06	DATA5	A27	KEYFLD	KEYFLD	A47	IC29	PER
A08	IC07	DATA6	A28	KEYFLD	KEYFLD	A48	PCX-	HLDD
A09	IC08	DATA7	A29	KEYFLD	KEYFLD	A49	IC30	STB
A10	IC09	LEV4	A30	INT	INT	A50	MCLR-	A11
A11	IC10	LEV3	A31	KEYFLD	KEYFLD	A51	IC31	MCT-
A12	IC11	SMP1	A32	KEYING	KEYING	A52	HTM	M3C00-
A13	IC12	LEV1	A33	KEYFLD	KEYFLD	A53	IC32	HREQ
A14	IC13	LEV2	A34	COSW-	COSW-	A54	ESI-	DISMEM-
A15	IC14	EDG1	A35	IC23	OUT1	A55	IC33	DISDMA-
A16	IC15	PUL1	A36	VS	DBIN	A56	HS	MEMW-
A17	IC16	OUT7	A37	IC24	OUT1-	A57	ABDY-	RDYIN
A18	IC17	OUT6	A38	TR2	SYNC	A58	ICD-	MEMR-
A19	IC18	OUT5	A39	IC25	ACKLC	A59	+5V	+5V
A20	IC19	OUT4	A40	TR1	WAIT	A60	0V	0V
B01	ILVS-	RESET	B21	IBB-	DB0	B41	IC37	BUSY-
B02	0V	0V	B22	DEOT-	DB1	B42	IBKLP-	A5
B03	PH2-	PH2TTL	B23	STAT-	A3	B43	CA	CA
B04	+5V	+5V	B24	TRSP-	A4	B44	ICA-	A0
B05	EOT-	I/OR-	B25	PER	A2	B45	SCA	SCA
B06	-5V	-5V	B26	TDB-	A7	B46	HOLD-	A14
B07	IC34	FF2	B27	KEYFLD	KEYFLD	B47	IC38	LOCK-
B08	-12V	-12V	B28	KEYFLD	KEYFLD	B48	RATE1-	DMAW-
B09	ICF-	I/OW-	B29	KEYING	KEYING	B49	SCF	SCF
B10	+12V	+12V	B30	KEYFLD	KEYFLD	B50	LOCAL-	A12
B11	IC35	ACK-	B31	KEYFLD	KEYFLD	B51	BB	BB
B12	ICC-	DB7	B32	KEYFLD	KEYFLD	B52	DTBK-	A15
B13	GPH2	GPH2	B33	TEST1	TEST1	B53	CB	CB
B14	MCO-	DB6	B34	TEST2	TEST2	B54	CE	CE
B15	GPH1	GPH1	B35	TOFS-	A6	B55	CF	CF
B16	TS-	DB5	B36	FLDP-	A9	B56	AUTO-	BINT-
B17	IC36	DLY-	B37	CD	CD	B57	CC	CC
B18	WAIT	DB4	B38	BUSY-	A8	B58	BRS-	A13
B19	SDO-	DB2	B39	BA	BA	B59	0V	0V
B20	FISCF	DB3	B40	BAIN-	A1	B60	SEL2-	SPARE3

REVISIONS

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PRINTS TO

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SIGNAL LIST FOR SMB 44C417573-G02 SAI

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FIRST MADE FOR SAI SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
A01	IC01	DATA0	A21	IC20	OUT3	A41	IC26	SLCT
A02	0V	0V	A22	VTM-	INTE	A42	RDCC-	RESIN-
A03	IC02	DATA1	A23	IC21	OUT2	A43	IC27	ACKC
A04	IC03	DATA2	A24	AA	AA	A44	RS-	A10
A05	IC04	DATA3	A25	+10V	+10V	A45	IC28	ACKL
A06	IC05	DATA4	A26	RATE2-	D5	A46	MCI	HOLD-
A07	IC06	DATA5	A27	KEYFLD	KEYFLD	A47	IC29	PER
A08	IC07	DATA6	A28	KEYFLD	KEYFLD	A48	PCX-	HLDD
A09	IC08	DATA7	A29	KEYFLD	KEYFLD	A49	IC30	STB
A10	IC09	LEV4	A30	INT	INT	A50	MCLR-	A11
A11	IC10	LEV3	A31	KEYFLD	KEYFLD	A51	IC31	MCT-
A12	IC11	SMP1	A32	KEYING	KEYING	A52	HTM	M3C00-
A13	IC12	LEV1	A33	KEYFLD	KEYFLD	A53	IC32	HREQ
A14	IC13	LEV2	A34	COSW-	COSW-	A54	ESI-	DISMEM-
A15	IC14	EDG1	A35	IC23	OUT1	A55	IC33	DISDMA-
A16	IC15	PUL1	A36	VS	DBIN	A56	HS	MEMW
A17	IC16	OUT7	A37	IC24	OUT1-	A57	ABDY-	RDYIN
A18	IC17	OUT6	A38	TR2	SYNC	A58	ICD-	MEMR-
A19	IC18	OUT5	A39	IC25	ACKLC	A59	+5V	+5V
A20	IC19	OUT4	A40	TR1	WAIT	A60	0V	0V
B01	ILVS-	RESET	B21	IBB-	DB0	B41	IC37	BUSY-
B02	0V	0V	B22	DEOT-	DB1	B42	IBKLP-	A5
B03	PH2-	PH2TTL	B23	STAT-	A3	B43	CA	CA
B04	+5V	+5V	B24	TRSP-	A4	B44	ICA-	A0
B05	EOT-	I/OR-	B25	PER	A2	B45	SCA	SCA
B06	-5V	-5V	B26	TDB-	A7	B46	HOLD-	A14
B07	IC34	FF2	B27	KEYING	KEYING	B47	IC38	LOCK-
B08	-12V	-12V	B28	KEYFLD	KEYFLD	B48	RATE1-	DMAW-
B09	ICF-	I/OW-	B29	KEYFLD	KEYFLD	B49	SCF	SCF
B10	+12V	+12V	B30	KEYFLD	KEYFLD	B50	LOCAL-	A12
B11	IC35	ACK-	B31	KEYFLD	KEYFLD	B51	BB	BB
B12	ICC-	DB7	B32	KEYFLD	KEYFLD	B52	DTBK-	A15
B13	GPH2	GPH2	B33	TEST1	TEST1	B53	CB	CB
B14	MCO-	DB6	B34	TEST2	TEST2	B54	CE	CE
B15	GPH1	GPH1	B35	TOFS-	A6	B55	CF	CF
B16	TS-	DB5	B36	FLDP-	A9	B56	AUTO-	BINT-
B17	IC36	DLY-	B37	CD	CD	B57	CC	CC
B18	WAIT	DB4	B38	BUSY-	A8	B58	BRS-	A13
B19	SDO-	DB2	B39	BA	BA	B59	0V	0V
B20	FISCF	DB3	B40	BAIN-	A1	B60	SEL2-	SPARE3

REVISIONS

PRINTS TO

113[2]
114
71,77
79[3],38[2]
41,119
82[2]

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GAB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802

CONT ON SHEET 71 SH NO. 70

CODE IDENT NO.

FF-803 WF (5-74)
PRINTED IN U.S.A.

GENERAL ELECTRIC

44A400802

CONT ON SHEET 72 SH NO. 71

REV NO.

CONT ON SHEET 72 SH NO. 71

TITLE

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

REVISIONS

STO SIGNAL LIST

KSR PIN	KSR SIGNAL	LP SIGNAL	KSR PIN	KSR SIGNAL	LP SIGNAL	KSR PIN	KSR SIGNAL	LP SIGNAL
01	0V	0V	21	VTPB-	SPARE4	41	TOFS-	A6
02	B0-	B0-	22	VRTM-	VRTM-	42	RDCC-	RESIN-
03	CE	CE	23	HIPB-	KSR6	43	XTC-	KSR9
04	B1-	B1-	24	VTM-	INTE	44	HRST-	HRST-
05	TOF-	KSR8	25	FFPB-	SPARE1	45	A/NS-	KSR1
06	B2-	B2-	26	POSW-	POSW-	46	HRTM-	HRTM-
07	SEL2-	SPARE3	27	TS4	SPARE8	47	+12V	+12V
08	B3-	B3-	28	TS2	SPARE7	48	PCX-	HLDD
09	ICC-	DB7	29	TS1	SPARE6	49	PH1-	PB1-
10	B4-	B4-	30	TL	SPARE5	50	MCLR-	A11
11	ABDN-	KSR2	31	KEYING	KEYING	51	-12V	-12V
12	B5-	B5-	32	KEYFLD	KEYFLD	52	HTM	M3C00-
13	ICE-	KSR7	33	KEYING	KEYING	53	PH2-	PH2TTL
14	B6-	B6-	34	KEYFLD	KEYFLD	54	ESI-	DISMEM-
15	LFPB-	PB0-	35	AUTO-	BINT-	55	PWRUP	PWRUP
16	B7-	B7-	36	VS	DBIN	56	HS	MEMW-
17	MCO-	DB6	37	ABIN-	KSR3	57	ABDY-	RDYIN
18	DISA1-	KSR4	38	TR2	SYNC	58	ICD-	MEMR-
19	DISA2-	KSR5	39	HOLD-	A14	59	+5V	+5V
20	IBB-	DB0	40	TR1	WAIT	60	0V	0V

PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GAB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802

CONT ON SHEET 72 SH NO. 71

CODE IDENT NO.

FF-803 WF (5-74)
PRINTED IN U.S.A.

SPARE SLOT SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	0V	0V	21	VTPB-	SPARE4	41	TOFS-	A6
02	B0-	B0-	22	VRTM-	VRTM-	42	RDCC-	RESIN-
03	CE	CE	23	HIPB-	KSR6	43	XTC-	KSR9
04	B1-	B1-	24	VTM-	INTE	44	HRST-	HRST-
05	TOF-	KSR8	25	FFPB-	SPARE1	45	A/NS-	KSR1
06	B2-	B2-	26	POSW-	POSW-	46	HRTM-	HRTM-
07	SEL2-	SPARE3	27	TS4	SPARE8	47	+12V	+12V
08	B3-	B3-	28	TS2	SPARE7	48	PCX-	HLDD
09	ICC-	DB7	29	TS1	SPARE6	49	PH1-	PB1-
10	B4-	B4-	30	TL	SPARE5	50	MCLR-	A11
11	ABDN-	KSR2	31	KEYING	KEYING	51	-12V	-12V
12	B5-	B5-	32	KEYFLD	KEYFLD	52	HTM	M3C00-
13	ICE-	KSR7	33	KEYING	KEYING	53	PH2-	PH2TTL
14	B6-	B6-	34	KEYFLD	KEYFLD	54	ESI-	DISMEM-
15	LFPB-	PB0-	35	AUTO-	BINT-	55	PWRUP	PWRUP
16	B7-	B7-	36	VS	DBIN	56	HS	MEMW-
17	MCO-	DB6	37	ABIN-	KSR3	57	ABDY-	RDYIN
18	DISA2-	KSR5	38	TR2	SYNC	58	ICD-	MEMR-
19	DISA1-	KSR4	39	HOLD-	A14	59	+5V	+5V
20	IBB-	DB0	40	TR1	WAIT	60	0V	0V

REVISIONS

113[2]
114
71,77
79[3],38[2]
41,119[2]
82
PRINTS TO

GENERAL ELECTRIC

44A400802

REV NO.

TITLE

SIGNAL LIST FOR SMB

CONT ON SHEET 74 SH NO. 73

FIRST MADE FOR 44C417573-G02

REVISIONS

SIO SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	SCF	SCF	21	TRSP-	A4	41	PH2-	PH2TTL
02	BB	BB	22	STAT-	A3	42	BDS	PB6-
03	SCA	SCA	23	CC	CC	43	CA	CA
04	CB	CB	24	ICD-	MEMR-	44	IBKLP-	A5
05	EOT-	I/OR-	25	TDB-	A7	45	HOLD-	A14
06	DTBK-	A15	26	PER	A2	46	ICA-	A0
07	ILVS-	RESET	27	RS-	A10	47	+12V	+12V
08	LOCAL-	A12	28	KEYING	KEYING	48	+12V	+12V
09	ICC-	DB7	29	BKPB-	PB7-	49	MCLR-	A11
10	ICF-	I/OW-	30	SYNC-	LED3-	50	RDLP-	PB5-
11	CF	CF	31	POLP-	LEDO-	51	ICE-	KSR7
12	MCO-	DB6	32	+V	+V	52	MTD-	LED2-
13	TS-	DB5	33	1200L-	1200L-	53	-12V	-12V
14	POSW-	POSW-	34	PH1-	PB1-	54	+5V	+5V
15	HS	MEMW-	35	TOFS-	A6	55	AUTO-	BINT-
16	WAIT	DB4	36	FLDP-	A9	56	CE	CE
17	FISCF	DB3	37	CD	CD	57	SEL2-	SPARE3
18	TTB-	PB2-	38	BUSY-	A8	58	BRS-	A13
19	DEOT-	DB1	39	BA	BA	59	0V	0V
20	IBB-	DB0	40	BAIN-	A1	60	ABDY-	RDYIN

113[2]
114
71,77
79[3],38[2]
41,119
82[2]

PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GHB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802

CONT ON SHEET 74 SH NO. 73

CODE IDENT NO.

FE-803 WE (5-74)

GENERAL ELECTRIC

44A400802

REV NO.

TITLE

CONT ON SHEET 75 SH NO. 74

SIGNAL LIST FOR SMB

FIRST MADE FOR 44C417573-G02

CONT ON SHEET 75 SH NO. 74

REVISIONS

SAM-MOLC SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	A/NS-	KSR1	21	TRSP-	A4	41	PH2-	PH2TTL
02	PWRUP	PWRUP	22	STAT-	A3	42	PH2-	PH2TTL
03	BDS	PB6-	23	XTC-	KSR9	43	ESI-	DISMEM-
04	VTRM-	VRST-	24	ICD-	MEMR-	44	IBKLP-	A5
05	EOT-	I/OR-	25	TDB-	A7	45	HOLD-	A14
06	DTBK-	A15	26	PER	A2	46	ICA-	A0
07	ILVS-	RESET	27	KEYFLD	KEYFLD	47	MCLR-	A11
08	LOCAL-	A12	28	KEYFLD	KEYFLD	48	+12V	+12V
09	ICC-	DB7	29	KEYFLD	KEYFLD	49	ABIN-	KSR3
10	ICF-	I/OW-	30	KEYFLD	KEYFLD	50	ABDN-	KSR2
11	BUSY-	A8	31	KEYFLD	KEYFLD	51	SYNC-	LED3-
12	MCO-	DB6	32	KEYING	KEYING	52	0V	0V
13	TS-	DB5	33	KEYFLD	KEYFLD	53	-12V	-12V
14	POSW-	POSW-	34	KEYFLD	KEYFLD	54	+5V	+5V
15	HS	MEMW-	35	TOFS-	A6	55	AUTO-	BINT-
16	WAIT	DB4	36	FLDP-	A9	56	BLANK	BLANK
17	FISCF	DB3	37	PH1-	PB1-	57	SEL2-	SPARE3
18	SDO-	DB2	38	PH1-	PB1-	58	BRS-	A13
19	DEOT-	DB1	39	RS-	A10	59	ABDY-	RDYIN
20	IBBI-	DB0	40	BAIN-	A1	60	ABDY-	RDYIN

JUN 6 1980

Bo Sara KRS

1

113 2

114

71, 77

79 3,

,119

82 2

PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GAB 6-16-78

DCPBD DIV OR DEPT.

Waynesboro, Va. LOCATION

44A400802

CONT ON SHEET 75 SH NO. 74

CODE IDENT NO.

FF-803 WF (5-74)
PRINTED IN U.S.A.

REV NO.

TITLE

SIGNAL LIST FOR SMB

CONT ON SHEET 76 SH NO. 75

FIRST MADE FOR 44C417573-G02

REVISIONS

D.S. SIGNAL LIST			KYBD. SIGNAL LIST			TAPE SIGNAL LIST		
PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	AA	AA	01	VTPB-	SPARE4	01	PWRUP	PWRUP
02	BA	BA	02	FFPB-	SPARE1	02	+10V	+10V
03	BB	BB	03	KINH-	UNUSED2	03	FLDP-	A9
04	CA	CA	04	HIPB-	KSR6	04	+12V	+12V
05	CB	CB	05	TRSP-	A4	05	ABDY-	RDYIN
06	CC	CC	06	LFPB-	PB0-	06	TRSP-	A4
07	0V	0V	07	MTD-	LED2-	07	DTBK-	A15
08	CF	CF	08	BKPB-	PB7-	08	WAIT	DB4
09	BLANK	BLANK	09	POLP-	LED0-	09	1200L-	1200L-
10	BLANK	BLANK	10	WAIT	DB4	10	LOCAL-	A12
11	SCA	SCA	11	MTPB-	LED1-	11	MCI	HOLD-
12	SCF	SCF	12	LOCAL-	A12	12	TDB-	A7
13	BLANK	BLANK	13	DSRLP-	PB3-	13	BRS-	A13
14	BLANK	BLANK	14	TDB-	A7	14	SYNC-	LED3-
15	BLANK	BLANK	15	RDLP-	PB5-	15	PER	A2
16	BLANK	BLANK	16	SYNC-	LED3-	16	BDS	PB6-
17	BLANK	BLANK	17	BKLP-	PB4-	17	SDO-	DB2
18	BLANK	BLANK	18	BDS	PB6-	18	KEYING	KEYING
19	SCA	SCA	19	ILVS-	RESET	19	TTB-	PB2-
20	CD	CD	20	TTB-	PB2-	20	ILVS-	RESET
21	BLANK	BLANK	21	0V	0V	21	BAIN-	A1
22	CE	CE	22	KEYING	KEYING	22	0V	0V
23	+V	+V	23	PWON	PWON	23	0V	0V
24	BLANK	BLANK	24	PH2-	PH2TTL	24	PH2-	PH2TTL
25	BLANK	BLANK	25	+5V	+5V	25	+5V	+5V
26	KEYING	KEYING	26	ALFS	UNUSED1	26	+5V	+5V
27	BLANK	BLANK	27	-12V	-12V	27	-12V	-12V
28	BLANK	BLANK	28	PH1-	PB1-	28	PH1-	PB1-

113[2]
114
71,77
79[3],38[2]
41,119
82[2]

PRINTS TO

MADE BY A.C. Hupp 2/3/78

ISSUED JUN 22 1978

APPROVALS GAB 6-16-78

DCPBD — DIV OR DEPT.

Waynesboro, Va. — LOCATION

44A400802

CONT ON SHEET 76 SH NO. 75

CODE IDENT NO.

MACHINE CONNECTOR SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	0V	0V	11	FLDP-	A9	21	BAIN-	A1
02	0V	0V	12	BLANK	BLANK	22	+5V	+5V
03	0V	0V	13	BLANK	BLANK	23	BLANK	BLANK
04	0V	0V	14	BLANK	BLANK	24	+5V	+5V
05	0V	0V	15	RMLP-	RMLP-	25	PLSW	PLSW
06	0V	0V	16	KEYING	KEYING	26	+5V	+5V
07	RATE1-	DMAW-	17	RMSW-	RMSW-	27	COSW-	COSW-
08	BLANK	BLANK	18	BLANK	BLANK	28	+10V	+10V
09	RATE2-	D5	19	SPKR-	SPKR-			
10	POSW-	POSW-	20	+5V	+5V			

HEAD CONNECTOR SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	WP6+	WP6+	07	WP7+	WP7+	13	WP1+	WP1+
02	WP6-	WP6-	08	WP7-	WP7-	14	WP1-	WP1-
03	WP4+	WP4+	09	WP5+	WP5+	15	WP9+	WP9+
04	WP4-	WP4-	10	WP5-	WP5-	16	WP9-	WP9-
05	WP2+	WP2+	11	WP3+	WP3+	17	WP8+	WP8+
06	WP2-	WP2-	12	WP3-	WP3-	18	WP8-	WP8-

CMTR CONNECTOR SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	+5V	+5V	04	CPHA-	CPHA-	07	CPHB-	CPHB-
02	0V	0V	05	BLANK	BLANK	08	+12V	+12V
03	0V	0V	06	CMTR-	CMTR-	09	CMTR+	CMTR+

PMTR CONNECTOR SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL	PIN	KSR SIGNAL	LP SIGNAL
01	+5V	+5V	04	PPHA-	PPHA-	07	PPHB-	PPHB-
02	0V	0V	05	BLANK	BLANK	08	+12V	+12V
03	0V	0V	06	PMTR+	PMTR+	09	PMTR-	PMTR-

SXRF CONNECTOR SIGNAL LIST

PIN	KSR SIGNAL	LP SIGNAL
01	RIBR-	RIBR-

REVISIONS

113[2]
114
71,77
79[3],38[2]
41,119
82[2]

PRINTS TO

GENERAL ELECTRIC

44B401642

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—

APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS: FRACTIONS	DECIMALS	ANGLES
289A500AL	✓	±	±	±

REV NO. — CONT ON SHEET — SH NO

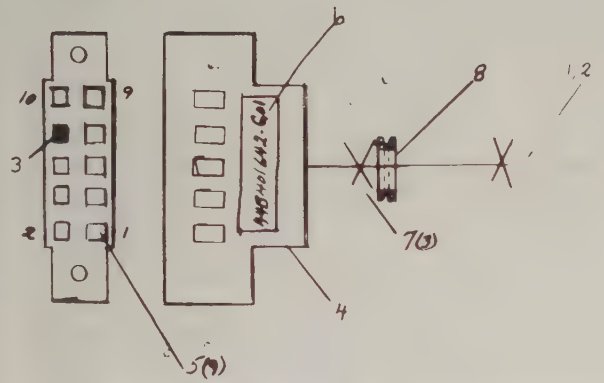
TITLE: M[illegible]K STATION Address Terminator Cable

FIRST MADE FOR T200

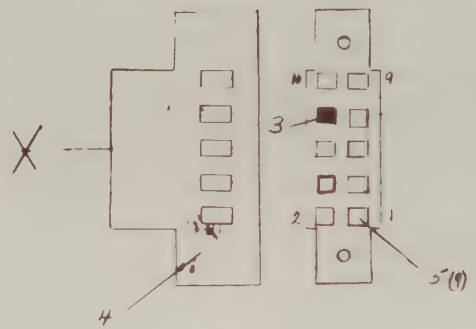
P.L. ISSUED

601

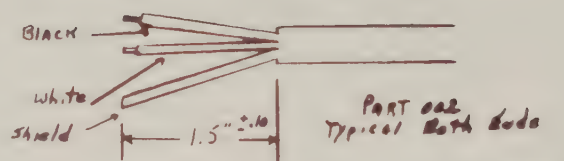
END 1



END 2



MARKING	P.L. No FOR WIRE	LENGTH ±.2	END 1 AND 2 STRIP	END 1 AND 2 P.L. No FOR TERMINAL	END 1 ROUTING	END 2 ROUTING	SIG. NAME
BLK	002	18"	.19	005	J1-1	J2-1	ØB
WHITE	002	18"	.19	005	J1-2	J2-2	ØY
A01	001	18"	.19	005	J1-3	J2-3	Add 4
A02	001	18"	.19	005	J1-4	J2-4	Add 2
A03	001	18"	.19	005	J1-5	J2-5	Add 1
A04	001	18"	.19	005	J1-6	J2-6	0V
SHIELD	002	18"	—	005	J1-7	J2-7	FRM GND
KEY	—	—	—	—	J1-8	J2-8	KEY
A06	001	18"	.19	005	J1-9	J2-9	0V
A07	001	18"	.19	005	J1-10	J2-10	0V



REVISIONS			PRINTS TO	
1	[illegible] OCT 11 1979		112 Δ	71
2	[illegible] NOV 27 1979		18	38
			113 Δ	105
			114 Δ	129
			104 Δ	

MADE BY [illegible] ISSUED AUG 31 1979

APPROVED [illegible] 8-30-79

DATA COMMUNICATION PRODUCTS BUSINESS DIV OR DEPT

WAYNESBORO, VA LOCATION

44B401642 CONT ON SHEET FNL SH NO. 1

DRAWING NO. 44B401642 CONT ON SHEET FNL SH NO. 1

FF-806-F (6-78-8-D PRINTED IN U.S.A.

12

GENERAL ELECTRIC

448401643-G01

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:— APPLIED PRACTICES: 289 AS COA2 | SURFACES: ✓ | TOLERANCES ON MACHINE DIMENSIONS: FRACTIONS ± | DECIMALS ± | ANGLES ±

REV NO | CONT ON SHEET | SH NO

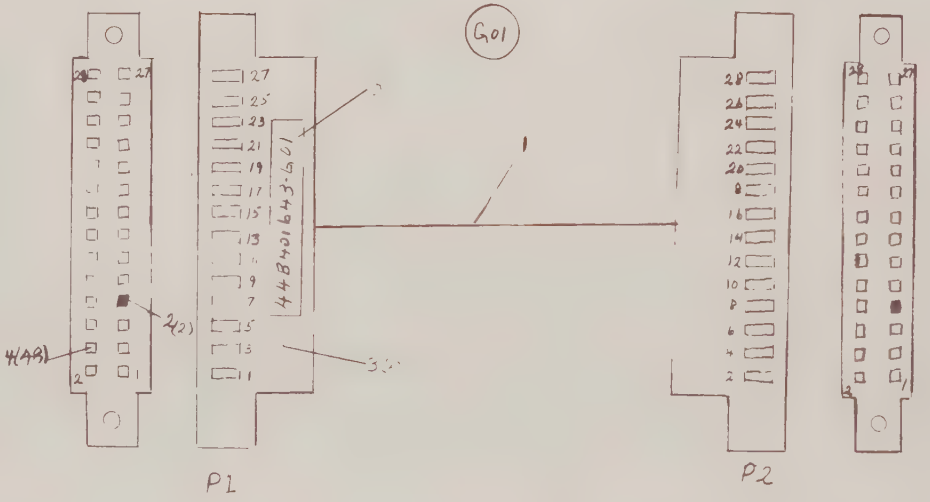
TITLE: MEMORY FRONT PANEL CABLE

FIRST MADE FOR T200

FRONT PANEL END 1

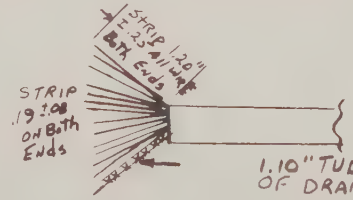
P1 ISSUED

CIRCUIT BOARD END 2



PL No.	PL # FOR WIRE	LENGTH ±.2	END 1 AND 2 STRIP	COLOR			END 1 ROUTING	END 2 ROUTING	SIGNAL NAME
04	01	30"	.19	WH			P1-1	P2 1	STOP
		30"	.19		BRN		P1-2	P2-2	START
		30"	.19		YEL		P1-3	P2-3	LINE FEED
		30"	.19		BLK		P1-4	P2-4	FORMS FEED
		30"	.19		GRY		P1-5	P2-5	CANCEL
04		30"	.19	WH	GRN		P1-6	P2-6	TRANS
		—	—	—	—	—	P1-7	P2-7	KEY
04		30"	.19	WH	BLU		P1-8	P2 8	SYS MAIN
		30"	.19		ORN		P1-9	P2-9	SYNC BIT
		30"	.19		RED		P1-10	P2.10	BLD PORT
04	01		.19	WH	VIO		P1-11	P2.11	READY
				—	—	—			
04	01	30"	.19	WH	BRN	YEL	P1-13	P2-13	LINE CHK
		30"	.19			BLK	P1-14	P2-14	ATTN
		30"	.19			GRY	P1-15	P2-15	FORMS
		30"	.19			GRN	P1-16	P2-16	UNIT CHK
		30"	.19			BLU	P1-17	P2-17	GRAPHIC CHK
		30"	.19			ORN	P1-18	P2-18	DATA CLRD
		30"	.19			RED	P1-19	P2 19	TRANS MODE
		30"	.19		BRN	VIO	P1-20	P2 20	INTERLOCK
	01	30"	.19		BLK	YEL	P1-21	P2 21	0V
04	01	30"	.19	WH	BLK	GRY	P1-22	P2-22	+5V
				—	—	—			
04	01	30"	.19	WH	BLK	VIO	P1-24	P2-24	0V
		~		—	—	—			
04	01	30"	.19	DRAIN WIRE			P1-26	P2 26	FRM GND
04	01	30"	.19	WH	BLK	RED	P1-27	P2-27	+5V
04	01	30"	.19	WH	BLK	ORN	P1-28	P2-28	+5V

NOTE: CUT OFF WH-BLK-BLU WH-BLK-ORN



1.10" TUBING ON BOTH ENDS OF DRAIN WIRE. 0.1" FROM END OF WIRE.

REVISIONS			
1	79-3934	OCT 1 1 1979	
2	79-9097	NOV 15 1979	

112²	71
18	38
113³	105
114²	129
119	104²

DRAWN [illegible] AUG 31 1979 | CHECKED [illegible] 8 31 79

DATA COMMUNICATION PRODUCTS BUSINESS WAYNESBORO, VA

448401643-G01 CONT ON SHEET FNL SH NO 1

DRAWN NO 448401643 CONT ON SHEET FNL SH NO 1

FORM 806-F (10-71) PRINTED IN U.S.A.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:

APPLIED PRACTICES	SURFACES	TOLERANCES OR MACHINED DIMENSIONS: FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

TITLE: SXRF BOARD

FIRST MADE FOR T-200 3 MODEL MULTIVOLTAGE INPUT

INCOMING POWER & UNREGULATED SUPPLIES

LINE CORD — LINE SWITCH (FRAME MT'D) — RIBBON DRIVE MOTOR, FAN, & LINE FILTER (FRAME MT'D.) — SXRF BOARD — TRANSFORMER (FRAME MT'D.) — SXRF BOARD — FILTER CAPS. (FRAME MT'D.) — MOTHER BOARD

FAN

FAN

FAN

TRANSFORMER (FRAME MT'D) ADDED WITH MAG. TAPE POWER SUPPLY OPTION

INPUT VOLTAGE SELECTION

240 V. — P2-1 — 20 V RMS

220 V. — P2-2 — 20 V RMS

200 V. — P2-4 — 83 V RMS

INPUT VOLTAGE — W12 BROWN

AC LINE 1

P1-3 — MDA-5 — F1 5A 250 V.

117 V.

100 V.

17 V RMS — P2-5

P2-3 — 100 V RMS

GND

LINE SWITCH

LINE FILTER

RV1

AC LINE 2

P1-1 — NEUTRAL — MDA-5 — F2 5A 250 V.

P2-6

W11 BLUE

FUSE BYPASS — REMOVE IF FUSED NEUTRAL IS DESIRED

TRANSFORMER LEAD COLOR CODE	
LEAD 1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	BLACK
6	BLUE
7	VIOLET
8	GRAY
9	WHITE
10	BLACK/WHITE
11	BROWN/WHITE
12	RED/WHITE
13	ORANGE/WHITE
LEAD 14	YELLOW/WHITE

RIB — RIBBON MOTOR — AS1 220Ω 0.47 — RIB

XFMR SHIELD — 14

PCB GUARD RUN

K1 — 340Ω — CR1 01

E1 FRAME GROUND

P4-1 — MDL1.5 — F4 5A — 13 — 29 V RMS — P4-8 — 12

0.22 C3

CR7 CR9 CR6 CR8 D19-4

+40 V — P5-7 — +40 V.

5 10MF — R2 820Ω 5W — 40CM

P5-2 — 0V.

5300MF 60 V

+40V.

0V.

F3 = MDA 12 12A. FOR 602

P4-4 — MDA8 (602) — F3 5A (602) — 8 — 9 V RMS — P4-7 — 7

0.22 C1

CR3 CR5 CR2 CR4

+10 V — P5-4 — +10V

R1 100Ω 5W.

10CM — P5-1 — 0V.

50,000MF 15 V.

+10V

0V.

P4-9 — MDX5 — F5 5A — 11 — 18 V RMS — P4-3 — 10

1.0 C2

CR12 CR13

+24V — P5-6 — +24V

R4 470Ω 5W.

24CM — P5-9 — 0V.

19,000MF 40V

+24V

0V

1.0 C4

CR10 CR11

R3 470Ω 5W.

P4-6 — MDX5 — F6 5A — 9

-24 V. — P5-8 — -24V.

19,000MF 40V

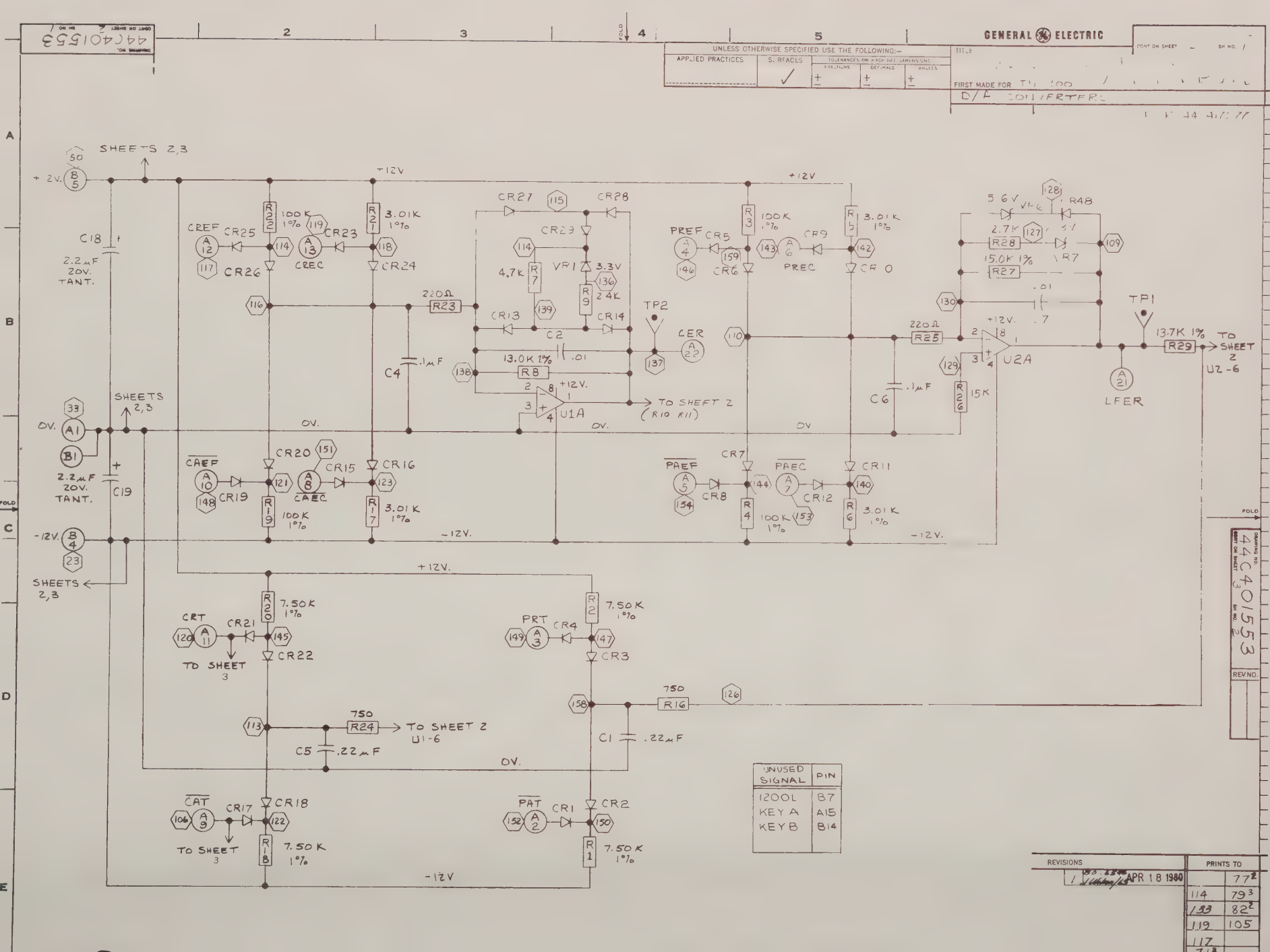
-24V.

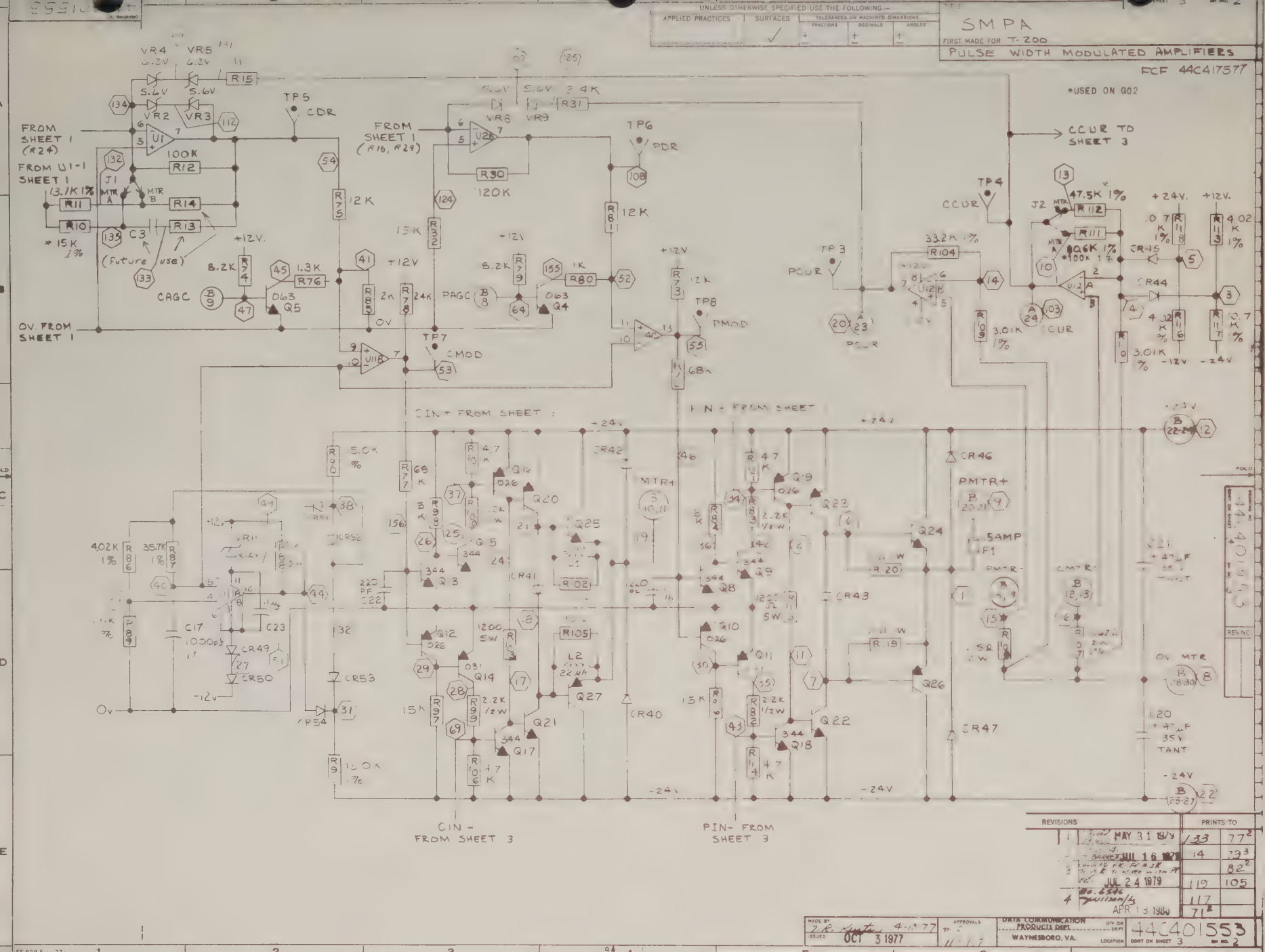
RIBR

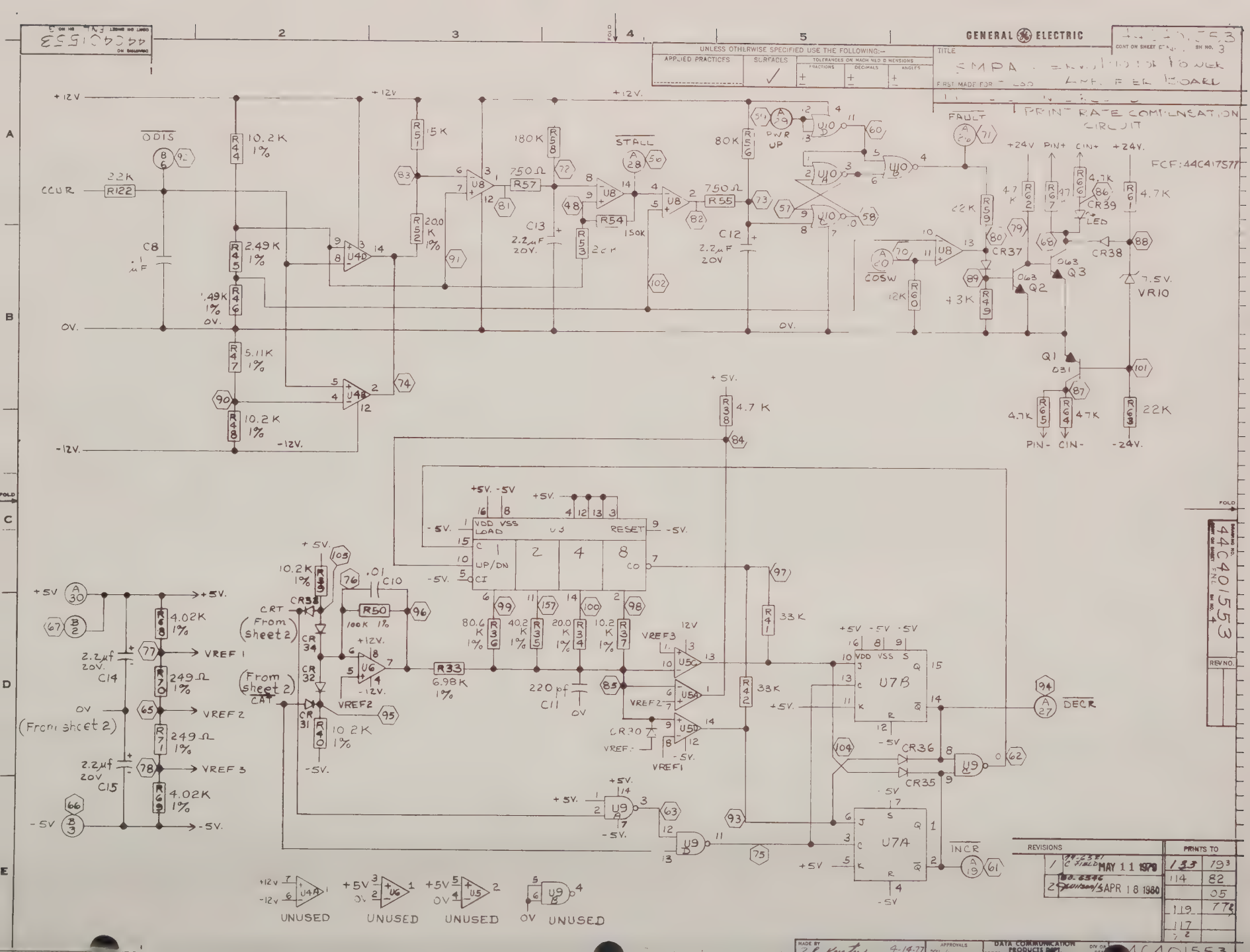
REVISIONS		PRINTS TO	
	3527 JAN 10 1980	3	17
2	80-65/4 FEB 1 - 1980	14	79
		133	82
		119	105
		117	134
		71	

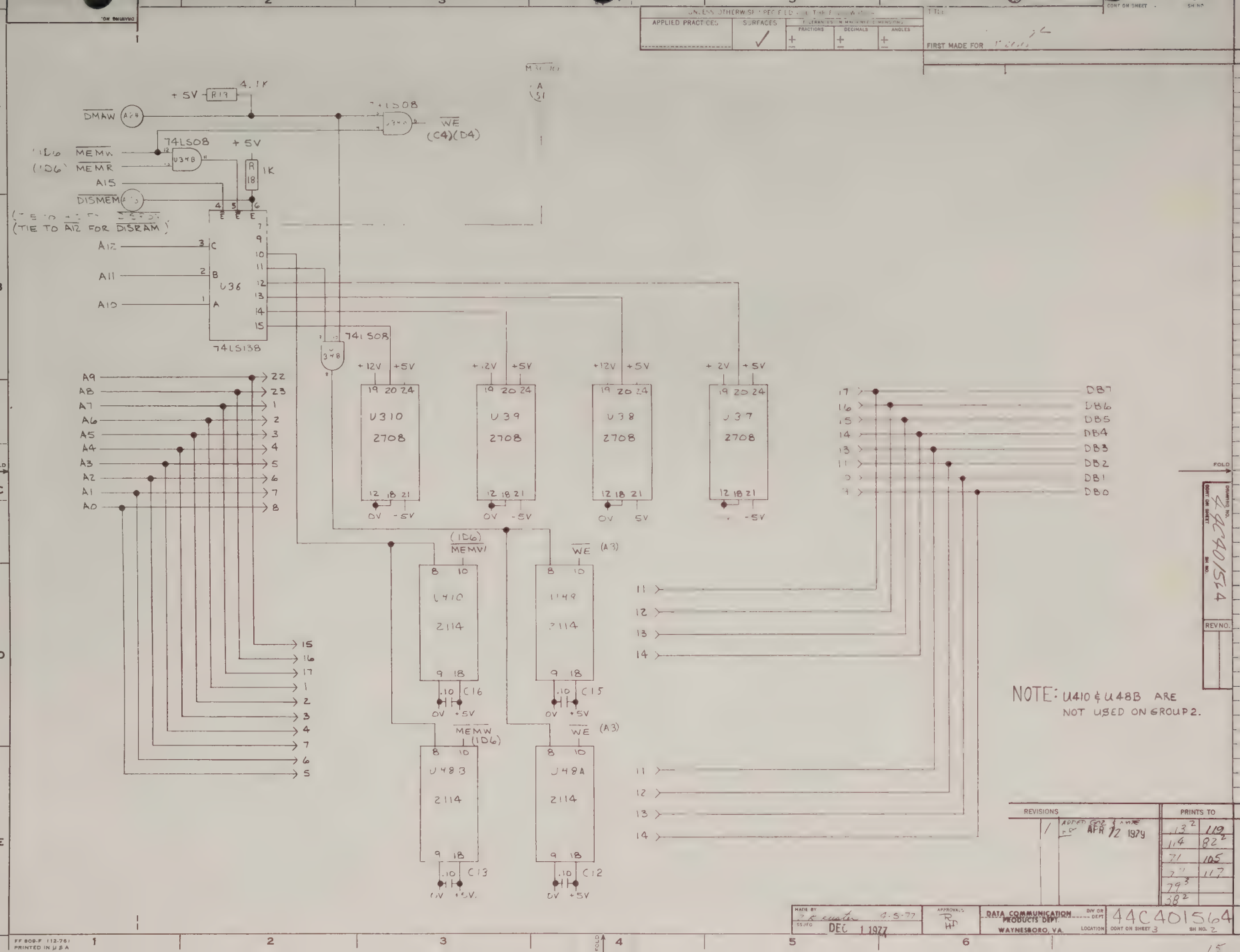
MADE BY	APPROVALS	DATA COMMUNICATION PRODUCTS BUSINESS WAYNESBORO VA	DIV OR DEPT LOCATION	44C401552
W. Bryant may 14, 1974 ISSUED JUN 20 1979	5/16/79		CONT ON SHEET FNL.	SH NO 3

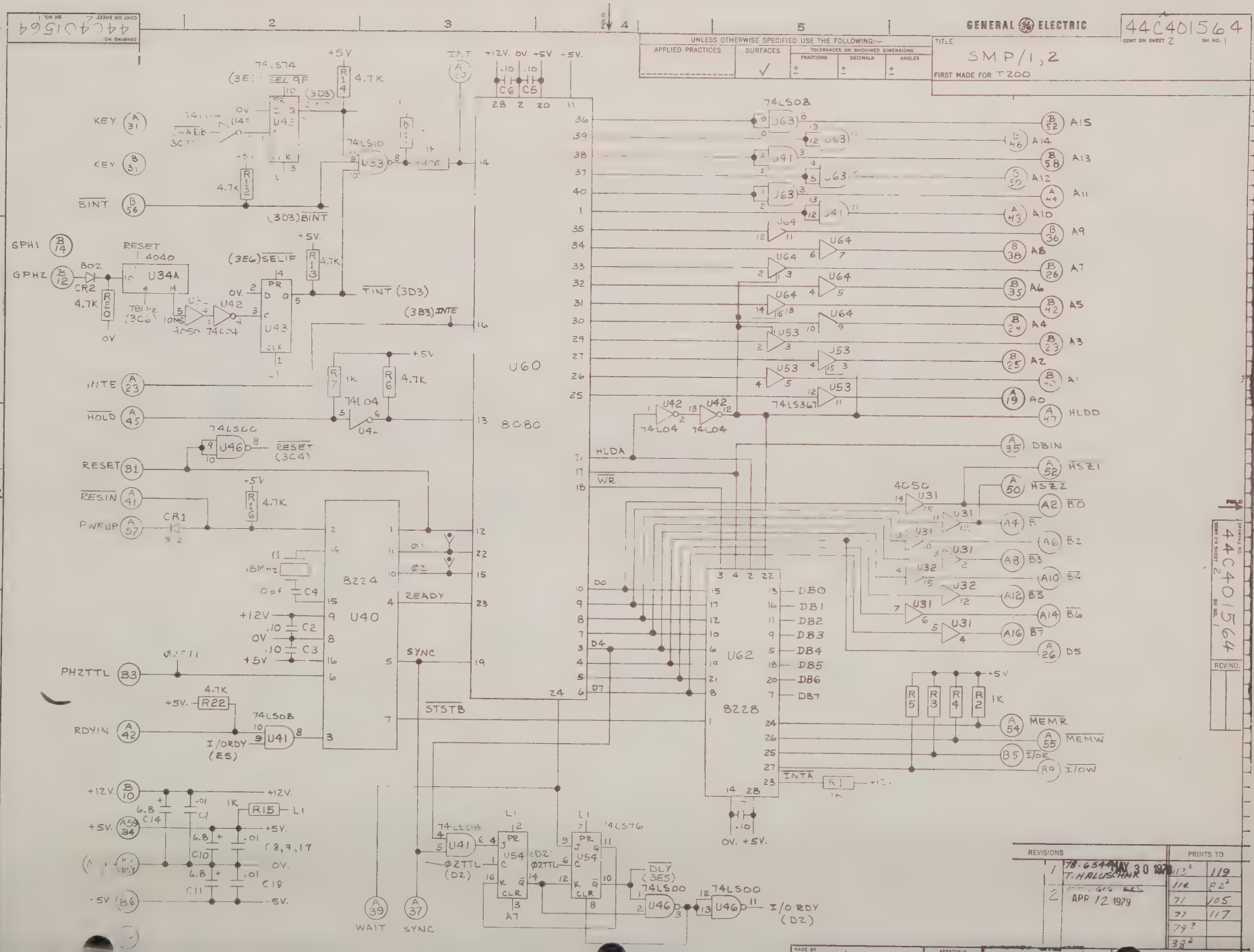
FP-808-F (1-79)

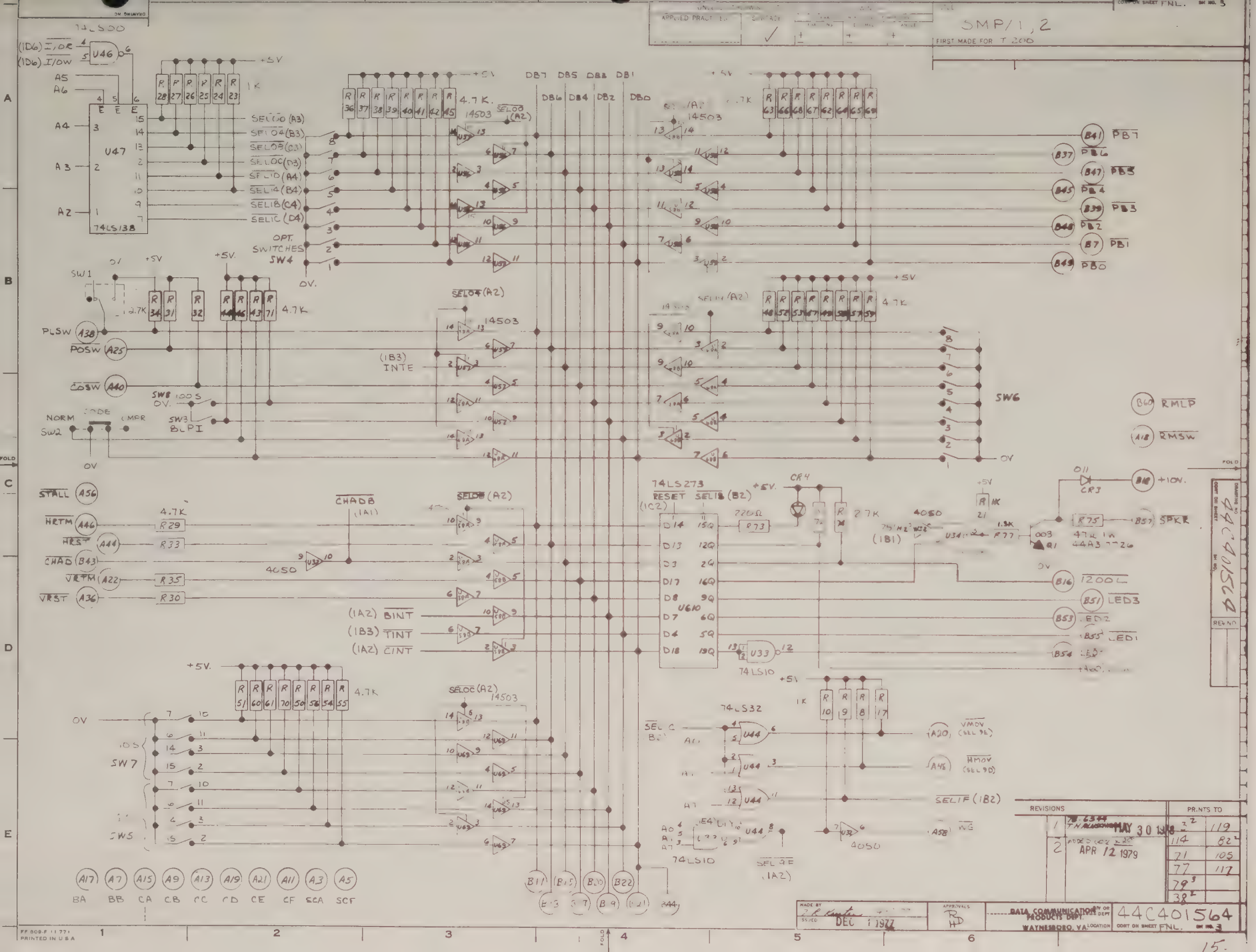

GENERAL ELECTRIC
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-
APPLIED PRACTICES
S. RFACES
TOLERANCES ON FRACTIONS DECIMALS ANGLES
FIRST MADE FOR
D/L
SHEETS 2,3
+2V.
C18
2.2μF 20V. TANT.
CREF
CR25
CR26
CREC
CR23
CR24
R22 100K 1%
R21 3.01K 1%
+12V
220Ω R23
C4 .1μF
CR27
CR28
CR29
4.7K R7
VR1 3.3V
2.4K R9
CR13
CR14
C2 .01
13.0K 1% R8
+12V.
U1A
TO SHEET 2 (R10 R11)
TP2
CER
PREF
CR5
CR6
PREC
CR9
CR0
R3 100K 1%
R5 3.01K 1%
5.6V VR6
R48
2.7K R28
15.0K 1% R27
R7
.01
.7
220Ω R25
+12V.
U2A
TP1
LFER
13.7K 1% R29
TO SHEET 2 U2-6
C6 .1μF
R26 15K
0V.
SHEETS 2,3
-12V.
C19
2.2μF 20V. TANT.
CAEF
CR19
CR20
CR15
CR16
CAEC
R19 100K 1%
R17 3.01K 1%
PAEF
CR8
CR7
PAEC
CR12
CR11
R4 100K 1%
R6 3.01K 1%
+12V.
CRT
CR21
CR22
TO SHEET 3
R20 7.50K 1%
PRT
CR4
CR3
R2 7.50K 1%
750 R24
TO SHEET 2 U1-6
C5 .22μF
750 R16
C1 .22μF
CAT
CR17
CR18
TO SHEET 3
R18 7.50K 1%
PAT
CR1
CR2
R1 7.50K 1%
-12V
UNUSED SIGNAL | PIN
1200L | B7
KEY A | A15
KEY B | B14
REVISIONS
APR 18 1980
PRINTS TO
77 2
79 3
82 2
105
44C401553
REV NO.

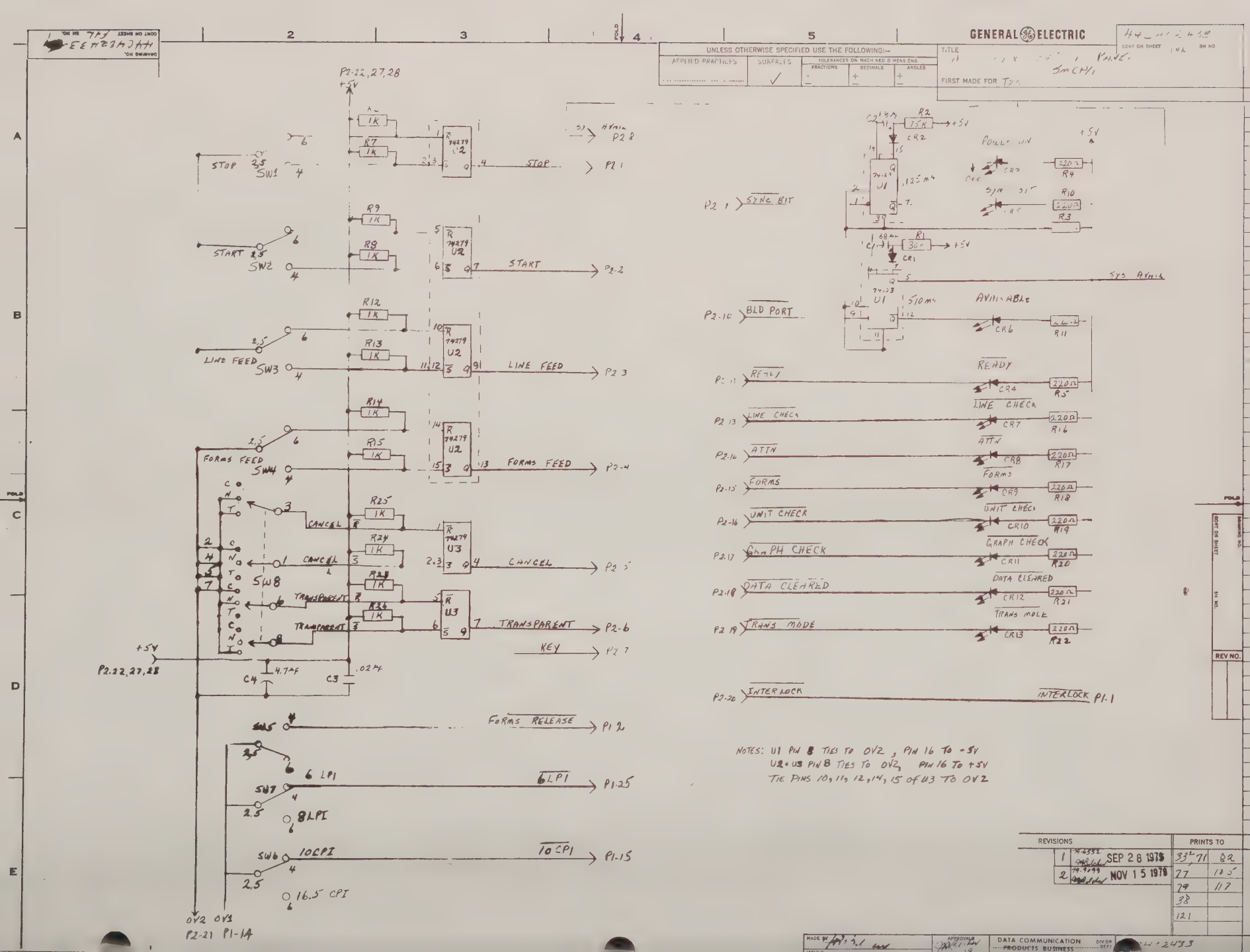

SMPA
FIRST MADE FOR T-200
PULSE WIDTH MODULATED AMPLIFIERS
FCF 44C417577
*USED ON G02
VR4 6.2V
VR5 6.2V
VR2 5.6V
VR3 5.6V
VR8 5.6V
VR9 5.6V
R15
R31
TP5 CDR
TP6 PDR
FROM SHEET 1 (R24)
FROM SHEET 1 (R16, R29)
FROM U1-1 SHEET 1
U1
U2B
U11B
100K R12
120K R30
13.1K 1% R11
* 15K 1% R10
C3 (Future use)
MTR A
MTR B
J1
R14
R13
12K R75
12K R81
15K R32
+12V.
8.2K R74
1.3K R76
8.2K R79
1K R80
CAGC
PAGC
Q63 Q5
Q63 Q4
OV. FROM SHEET 1
OV
TP7 CMOD
TP8 PMOD
12K R73
68K R77
TP4 CCUR
TP3 PCUR
CCUR TO SHEET 3
J2
47.5K 1% R112
R111
.06K 1%
100K 1%
33.2K 1% R104
3.01K 1% R109
CR45
CR44
+24V.
+12V.
.07 K 1% R118
4.02 K 1% R113
4.02 K 1% R110
3.01K 1% R117
-12V
-24V
CR46
PMTR+
CR42
CR43
CR40
CR47
Q24
Q23
Q22
Q26
Q25
Q27
Q21
Q20
Q19
Q18
Q17
Q16
Q14
Q12
Q11
Q10
Q9
Q8
Q5
Q3
.5AMP F1
C21 47 uF 35V TANT
C20 47 uF 35V TANT
C17 1000PF
C23
CR49
CR50
CR53
CR54
CR52
CR41
L2 22 uH
R105
R102
R107
R108
R109
R110
R119
R120
R121
R122
R123
R124
R125
R126
R127
R128
R129
R130
R131
R132
R133
R134
R135
R136
R137
R138
R139
R140
R141
R142
R143
R144
R145
R146
R147
R148
R149
R150
R151
R152
R153
R154
R155
R156
R157
R158


GENERAL ELECTRIC
TITLE
SMPA - ENVIRONMENTAL POWER
PRINT RATE COMPENSATION CIRCUIT
FCF:44C417577
44C401553
+12V
-12V
+5V
-5V
0V
ODIS
CCUR
COSW
FAULT
STALL
PWR UP
DECR
INCR
VREF1
VREF2
VREF3
CRT
R122 22K
R44 10.2K 1%
R45 2.49K 1%
R46 1.49K 1%
R47 5.11K 1%
R48 10.2K 1%
R51 15K
R52 200K 1%
R57 750Ω
R58 180K
R54 150K
R53 22K
R55 750Ω
R56 80K
R59 22K
R60 12K
R49 3.3K
R62 4.7K
R67 4.7K
R61 4.7K
R63 22K
R64 4.7K
R65 4.7K
R38 4.7K
R41 33K
R42 33K
R33 6.98K 1%
R36 80.6K 1%
R35 40.2K 1%
R34 20.0K 1%
R37 10.2K 1%
R40 10.2K 1%
R50 100K 1%
R68 4.02K 1%
R70 249Ω 1%
R71 249Ω 1%
R69 4.02K 1%
C8 .1μF
C13 2.2μF 20V.
C12 2.2μF 20V
C10 .01
C11 220pf
C14 2.2μf 20V.
C15 2.2μf 20V
CR39 LED
CR38
CR37
CR36
CR35
CR34
CR33
CR32
CR31
CR30
Q1 D31
Q2 D63
Q3 D63
VR10 7.5V.
U40
U48
U3
U5A
U5B
U5C
U5D
U6
U7A
U7B
U8
U9
U10
U4A
UNUSED
UNUSED
UNUSED
UNUSED
PRINT RATE COMPENSATION CIRCUIT
REVISIONS
PRINTS TO
MAY 11 1979
APR 18 1980
44C401553
REV NO.


+5V
4.1K
R17
DMAW
A24
74LS08
U34B
WE
(C4)(D4)
(1D6) MEMW
(1D6) MEMR
A15
DISMEM
1K
R18
(TIE TO A12 FOR DISRAM)
A12
A11
A10
U36
74LS138
+12V
+5V
U310
2708
U39
U38
U37
0V
-5V
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
(1D6) MEMW
WE (A3)
U410
U411
U483
U48A
2114
C16
C15
C13
C12
.10
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
NOTE: U410 & U48B ARE NOT USED ON GROUP 2.
44C401564
REV NO.
REVISIONS
PRINTS TO
DATA COMMUNICATION PRODUCTS DEPT.
WAYNESBORO, VA.
DEC 1 1977


GENERAL ELECTRIC
44C401564
SMP/1,2
FIRST MADE FOR T200
8080
8224
8228
U60
U40
U62
74LS08
74LS00
74LS04
74LS367
74LS10
74LS74
74LS76
74LS28
74LS86
74LS04
8 MHz
READY
SYNC
STSTB
RESET
RESIN
PWRUP
RDYIN
I/ORDY
PHZTTL
WAIT
SYNC
DBIN
HLDA
WR
HLDD
MEMR
MEMW
I/OR
I/OW
INTA
I/O RDY
BINT
TINT
INTE
HOLD
KEY
GPH1
GPH2
+5V
+12V
-5V
REVISIONS
PRINTS TO


SMP/1, 2
FIRST MADE FOR T 200
74LS00
74LS138
U47
U46
SW1
SW2
SW3
SW4
SW5
SW6
SW7
14503
4050
74LS273
74LS32
74LS10
U610
CR3
CR4
Q1
Q2
Q3
+5V.
OV.
4.7K.
1K
27K
1.5K
SELOD (A3)
SELOA (B3)
SELOB (C3)
SELOC (D3)
SELD (A4)
SELA (B4)
SELB (C4)
SELC (D4)
OPT. SWITCHES
DB7 DB5 DB3 DB1
DB6 DB4 DB2 DB0
(1D6) IOR
(1D6) IOW
A5
A6
A4
A3
A2
PLSW A38
POSW A25
COSW A40
NORM
CODE
CMPR
BLPI
STALL A56
HRTM A46
HRST A44
CHAD B43
VRTM A22
VRST A36
CHADB (1A1)
(1A2) BINT
(1B3) TINT
(1A2) CINT
(1B3) INTE
SELOF (A2)
SELOE (A2)
SELOD (A2)
SELOC (A2)
SELB (B2)
SELC (B2)
SELE (1A2)
SELF (1B2)
RESET
VMOV (SEL 9E)
HMOV (SEL 9D)
RMLP B60
RMSW A18
+10V. B18
SPKR B57
LED3 B51
LED2 B53
LED1 B55
LED0 B54
1200L B16
PB7 B41
PB6 B37
PB5 B47
PB4 B45
PB3 B39
PB2 B48
PB1 B7
PB0 B49
BA A17
BB A7
CA A15
CB A9
CC A13
CD A19
CE A21
CF A11
SCA A3
SCF A5
(B11) (B15) (B20) (B22) (B24)
(B13) (B17) (B9) (B21) (B44)
MADE BY
DEC 1 1977
APPROVALS
DATA COMMUNICATIONS PRODUCTS DEPT.
WAYNESBORO, VA
44C401564
CONT ON SHEET FNL.
REVISIONS
MAY 30 1978
APR 12 1979
PRINTS TO
119
82
105
117
44C401564
REV NO
15.


GENERAL ELECTRIC
P2-22,27,28
+5V
STOP
SW1
START
SW2
LINE FEED
SW3
FORMS FEED
SW4
CANCEL
SW8
TRANSPARENT
SW5
6 LPI
SW7
8 LPI
SW6
10 CPI
16.5 CPI
R1 thru R25 1K
U2 74279
U3 74279
STOP P2 1
START P2-2
LINE FEED P2 3
FORMS FEED P2-4
CANCEL P2 5
TRANSPARENT P2-6
KEY P2 7
FORMS RELEASE P1 2
6LPI P1-25
10CPI P1-15
C4 4.7μF
C3 .02μF
OV2 OV3
P2-21 P1-14
P2 1 SYNC BIT
R2 75K
CR2
POWER UP
CR3
R4 220Ω
SYN BIT
R10 220Ω
R3
C1 .68μF
R1 30K
CR1
SYS AVAIL
U1 74123
.125 ms
510 ms
AVAILABLE
P2-10 BLD PORT
CR6
R11
READY
P2 11 READY
CR4
R5
LINE CHECK
P2 13 LINE CHECK
CR7
R6
ATTN
P2-14 ATTN
CR8
R17
FORMS
P2-15 FORMS
CR9
R18
UNIT CHECK
P2-16 UNIT CHECK
CR10
R19
GRAPH CHECK
P2-17 GRAPH CHECK
CR11
R20
DATA CLEARED
P2-18 DATA CLEARED
CR12
R21
TRANS MODE
P2 19 TRANS MODE
CR13
R22
P2-20 INTERLOCK
INTERLOCK P1-1
NOTES: U1 PIN 8 TIES TO OV2, PIN 16 TO +5V
U2+U3 PIN 8 TIES TO OV2, PIN 16 TO +5V
TIE PINS 10, 11, 12, 14, 15 OF U3 TO OV2
REVISIONS
1 SEP 28 1978
2 NOV 15 1978
PRINTS TO
DATA COMMUNICATION PRODUCTS BUSINESS

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—
APPLIED PRACTICES | SURFACES ✓ | TOLERANCES ON MACHINED DIMENSIONS: FRACTIONS | DECIMALS | ANGLES

TITLE MEMOREX INTERFACE SMX/1
FIRST MADE FOR T-200/T-340 REF. 720918

CONNECTORS A + B

B12	DB7	5D4 (3) U71, U72, U73
B14	DB6	5D4 (3) U71, U72, U73
B16	DB5	5D4 (3) U71, U72, U73
B18	DB4	5D4 (3) U71, U72, U73
B20	DB3	5D4 (3) U71, U72, U73
B19	DB2	5E4 (3) U71, U72, U73
B22	DB1	5E4 (3) U71, U72, U73
B21	DBØ	5E4 (3) U71, U72, U73
B56	$\overline{\text{BINT}}$	5E6 U49-8
B05	I/OR	5D1 U30-9
B09	I/OW	5B1 U30-13
B42	A5	5E1 (2) U43-5, 13
B35	A6	5D1 U43-9
A42	$\overline{\text{RESET IN}}$	2D2 U30-5
B06	-5 VOLT	(9A5, 9D4) J2-26, J1-7
A24	FRAME GND	1C6 (2)
A33	MB1	6B5, 6C5 U22-3, 15
B60	MB2	6B4, 6C4 U22-8

A27 A28 A29 A31 → OV

333

B08 B29 B30 B31 B32

B08 → -12V (9E6, 9E5)

334

B29 B30 → +5 VOLTS

4.7 µF 50V +C51 | 4.7µF C50 | .01 µF

1 CAP FOR EVERY 2 IC LOCATIONS

B31 B32 → OV

J2

1	STOP	5B4 U47, U58
2	START	5B4 U58-2, U47-2
3	LINE FEED	5B4 U58-3, U47-3
4	FORMS FEED	5B4 U58-4, U47-12
5	CANCEL	5B4 U58-5, U47-13
6	TRANS	5B4 U58-6
7	KEY	
8	SYS AVAIL	5D4 U57-4
9	$\overline{\text{SYNC BTT}}$	7C7 U16-4
10	$\overline{\text{BLD PORT}}$	8B2 U49-6
11	$\overline{\text{READY}}$	5A7 U74-8
12	OV	
13	LINE CHK	5A7 U74-5
14	$\overline{\text{ATTN}}$	5A7 U74-4
15	$\overline{\text{FORMS}}$	5A7 U74-7
16	UNIT CHK	5A7 U74-6
17	$\overline{\text{GRAPHIC CHK}}$	5A7 U74-3
18	$\overline{\text{DATA CLRD}}$	5A7 U74-2
19	$\overline{\text{TRANS MODE}}$	5B7 U74-1
20	$\overline{\text{INTERLOCK}}$	5B4
21	OV	1C2
22	+5V	1D2
23		
24	OV	1C2
25		
26	FRAME GND	(A24)
27	+5 VOLTS	(B29, B30, B31, B32)
28	+5 VOLTS	

OV

J1

1	ØB	9A5 R47 CR2
2	ØY	9B5 R44, CR1
3	STA ADD 4	U57-9, R25, U19-9, U64-8 5C4, 6D5, 7B1, 8A5
4	STA ADD 2	U57-7, R26, U19-11, U64-15 5C4, 6D5, 7B1, 8A5
5	STA ADD 1	U57-4, R27, U19-14, U64-6 5C4, 6D5, 7B1, 8A5
6	OV	(A27, A28, A29, A31)
7	FRAME GROUND	A24
8	KEY	
9	OV	(A27, A28, A29, A31)
10	OV	

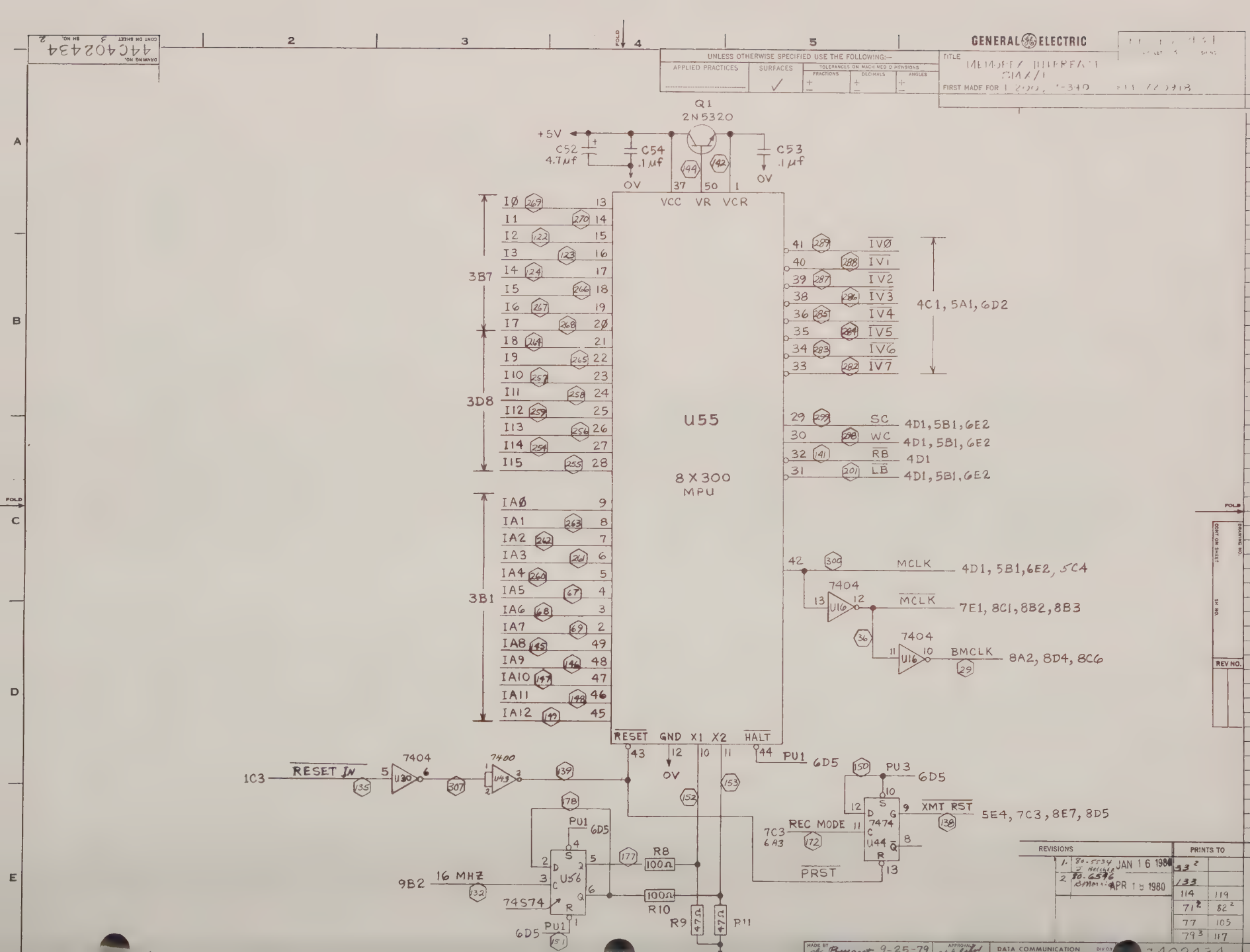
NOTE.
⬡ FIXIT PADS FOR FACTORY TEST ONLY

REVISIONS
1 JAN 16 1980
A APR 18 1980

PRINTS TO
33², 133, 119, 82², 105, 117

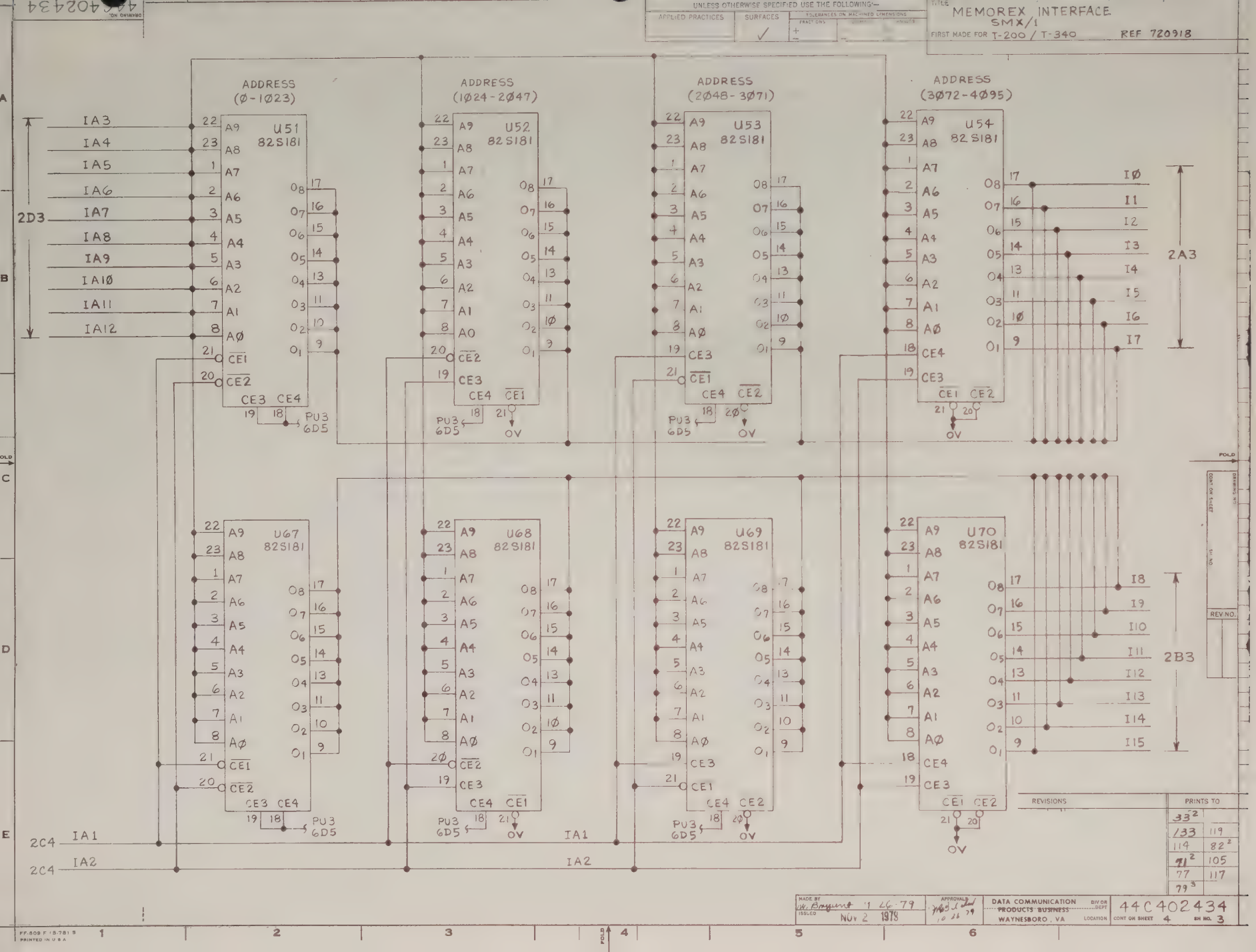
MADE BY ISSUED: N. Bryant 9-24-79 NOV 2 1979
APPROVED: 9-26-79
DATA COMMUNICATION PRODUCTS BUSINESS WAYNESBORO VA
DWG OR DEPT LOCATION
44C402434
CONT ON SHEET 2 SH NO. 1

FORM 608-F 5-78-5 PRINTED IN U.S.A.


GENERAL ELECTRIC
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—
APPLIED PRACTICES
SURFACES
TOLERANCES ON MACHINED DIMENSIONS
FRACTIONS
DECIMALS
ANGLES
TITLE
FIRST MADE FOR
DRAWING NO. 44C402434
CONT ON SHEET
SH NO.
REV NO.
Q1
2N5320
+5V
C52
4.7µf
C54
.1µf
C53
.1µf
OV
VCC VR VCR
U55
8X300
MPU
3B7
3D8
3B1
I0 I1 I2 I3 I4 I5 I6 I7 I8 I9 I10 I11 I12 I13 I14 I15
IA0 IA1 IA2 IA3 IA4 IA5 IA6 IA7 IA8 IA9 IA10 IA11 IA12
IV0 IV1 IV2 IV3 IV4 IV5 IV6 IV7
4C1, 5A1, 6D2
SC 4D1, 5B1, 6E2
WC 4D1, 5B1, 6E2
RB 4D1
LB 4D1, 5B1, 6E2
MCLK 4D1, 5B1, 6E2, 5C4
7404
U16
MCLK 7E1, 8C1, 8B2, 8B3
BMCLK 8A2, 8D4, 8C6
RESET GND X1 X2 HALT
PU1 6D5
PU3 6D5
RESET IN
1C3
7400
U43
U30
XMT RST 5E4, 7C3, 8E7, 8D5
REC MODE
7C3 6A3
7474
U44
PRST
U56
74S74
9B2 16 MHZ
R8 100Ω
R10 100Ω
R9 47Ω
R11 47Ω
REVISIONS
PRINTS TO
APR 1 5 1980
DATA COMMUNICATION

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—
APPLIED PRACTICES | SURFACES ✓ | TOLERANCES ON MACHINED DIMENSIONS FRACTIONS ± | DECIMALS | ANGLES

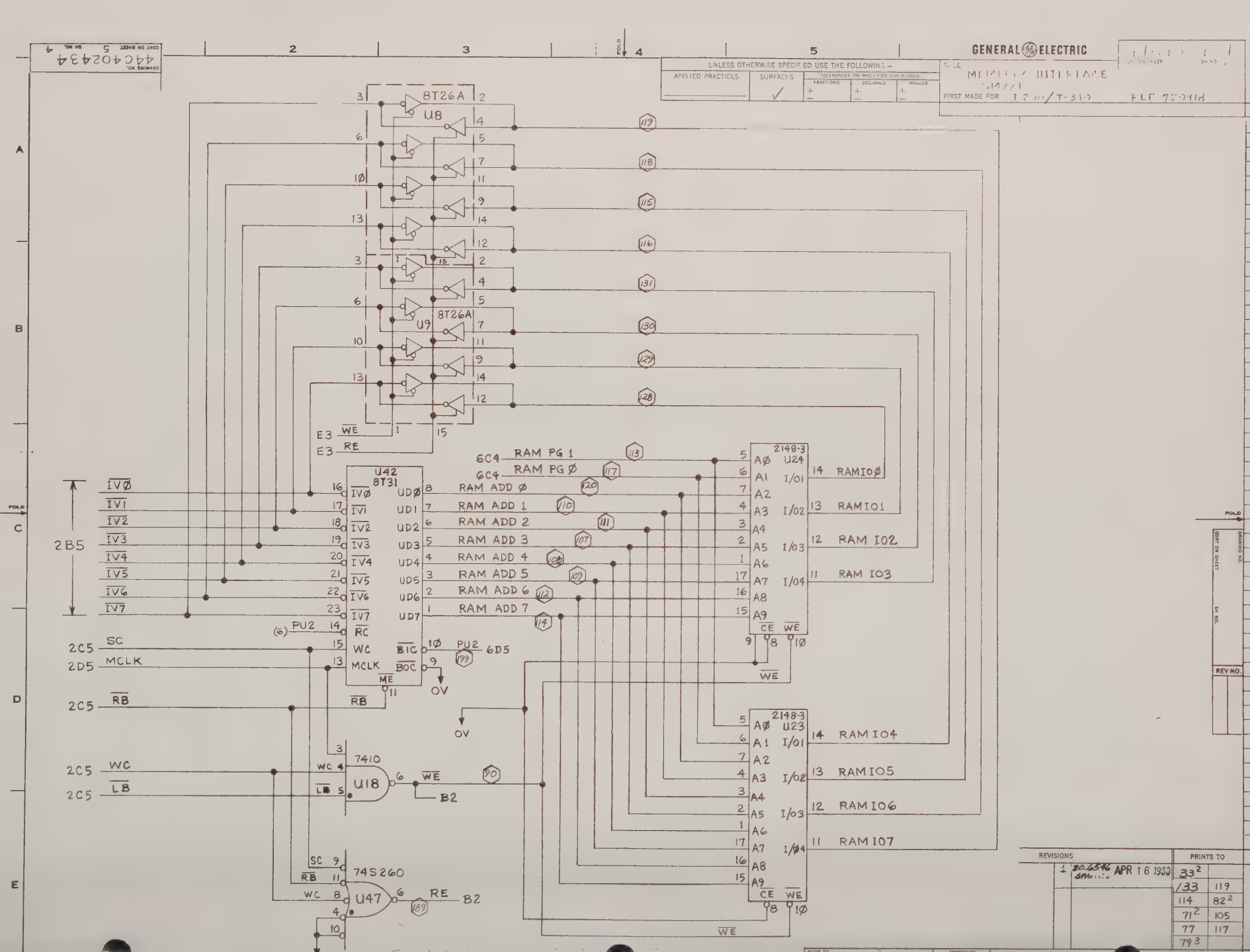
TITLE MEMOREX INTERFACE SMX/1
FIRST MADE FOR T-200 / T-340 REF 720918

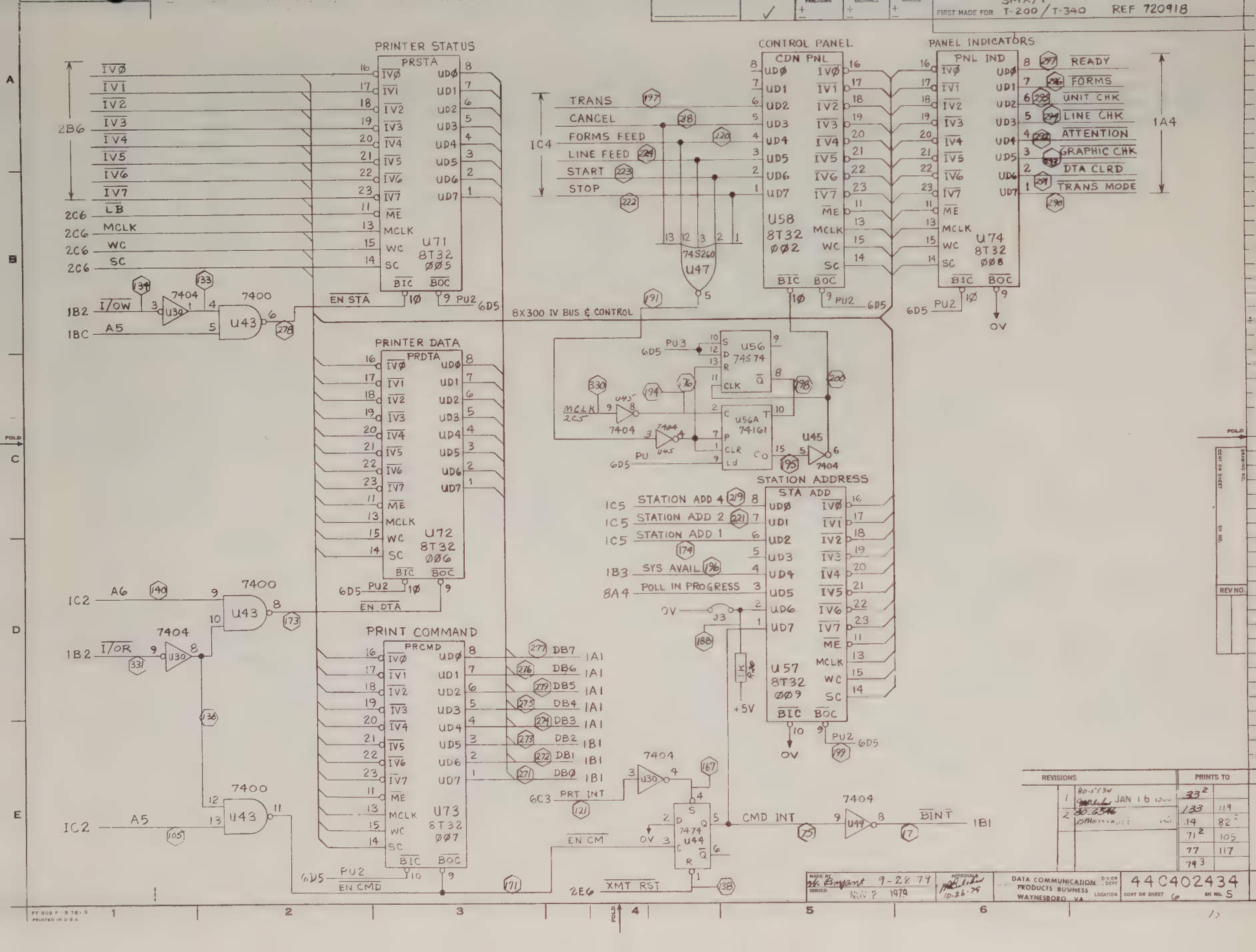


REVISIONS	PRINTS TO	
	33²	
	133	119
	114	82²
	71²	105
	77	117
	79³	

MADE BY W. Bryant 1-26-79 ISSUED NOV 2 1978
APPROVALS 10-26-79
DATA COMMUNICATION PRODUCTS BUSINESS WAYNESBORO, VA
DIV OR DEPT LOCATION
44C402434 CONT ON SHEET 4 SH NO. 3

FF-809 F (5-78) 5 PRINTED IN U.S.A.


GENERAL ELECTRIC
MILITARY INTERFACE
8T26A
U8
8T26A
U9
U42
8T31
2148-3
U24
U23
7410
U18
74S260
U47
RAM PG 1
RAM PG Ø
RAM ADD Ø
RAM ADD 1
RAM ADD 2
RAM ADD 3
RAM ADD 4
RAM ADD 5
RAM ADD 6
RAM ADD 7
RAMIØØ
RAM IO1
RAM IO2
RAM IO3
RAM IO4
RAM IO5
RAM IO6
RAM IO7
2B5
2C5 SC
2D5 MCLK
2C5 RB
2C5 WC
2C5 LB
E3 WE
E3 RE
PU2
6D5
OV
B2
REVISIONS
PRINTS TO


PRINTER STATUS
PRSTA
U71
8T32 ØØ5
CONTROL PANEL
CDN PNL
U58
8T32 ØØ2
PANEL INDICATORS
PNL IND
U74
8T32 ØØ8
READY
FORMS
UNIT CHK
LINE CHK
ATTENTION
GRAPHIC CHK
DTA CLRD
TRANS MODE
TRANS
CANCEL
FORMS FEED
LINE FEED
START
STOP
74S260
U47
8X300 IV BUS & CONTROL
PRINTER DATA
PRDTA
U72
8T32 ØØ6
PRINT COMMAND
PRCMD
U73
8T32 ØØ7
STATION ADDRESS
STA ADD
U57
8T32 ØØ9
STATION ADD 4
STATION ADD 2
STATION ADD 1
SYS AVAIL
POLL IN PROGRESS
U56
74S74
U56A
74161
U45
7404
7400
U43
7404
U30
7404
U49
7474
U44
+5V
EN STA
EN DTA
EN CMD
PRT INT
CMD INT
XMT RST
BINT
REVISIONS
PRINTS TO
DATA COMMUNICATION PRODUCTS BUSINESS
WAYNESBORO VA
4404402434

GENERAL ELECTRIC
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-
APPROVED PRACTICES | SURFACES ✓ | FRACTIONS ± | DECIMALS ± | ANGLES ±
TITLE MEMOREX INTERFACE MX/1
FIRST MADE FOR T-200, T-340 FIL 120318

COMMAND PORT

CMNDIN

7B7	SYNC BIT	54	UDØ
7D7	PAR ERR	75	UD1
7E6	EOM	67	UD2
ØV	J1		UD3
A5	CMD 4		UD4
A5	CMD 3	102	UD5
A5	CMD 2	101	UD6
A5	CMD 1	99	UD7

R1 1K +5V (95) (103)

U40 8T32 ØØØ

BIC BOC

7D3 LD PORT (84) 1Ø PU4 (66) D5

XMT/REC CONTROLS

XMTOUT

8	65	SCS BYTE	
7	64	POLL EN	8B2
6	63	CLR FRM	7C3,7D3
5	72	REC MODE	2E5,7C3
4	71	FRAME SYNC	8B2, 8E2
3	70	XMIT ENAB	8C2, 8E2
2		BIN DATA	8E4
1	251	PAR EN	8E4

(243)

U38 8T32 ØØ3

BIC BOC

D5 PU4 1Ø 9 ØV

COMMAND/SCS DECODER

U22A 74S571

7A7	FRM BIT 7	89	D4	CMD 4 A1
7A7	FRM BIT 8	88	D3	CMD 3 B1
7A7	FRM BIT 9	87	D2	CMD 2 B1
7A7	FRM BIT 10	86	D1	CMD 1 B1
7B7	FRM BIT 11	91		
7B7	FRM BIT 12	90		
7B7	FRM BIT 13	104		
7B7	FRM BIT 14	100		
1C1	MB2	137	GND	CS 13

R2 1K +5V (106) MB1 1C1 1K R3 +5V

T200

T340

U22B 82S181

	SCS BYTE		D4	11 CMD 4 A1
7A7	FRM BIT 7	89	D3	12 CMD 3 B1
7A7	FRM BIT 8	88	D2	13 CMD 2 B1
7A7	FRM BIT 9	87	D1	14 CMD 1 B1
7A7	FRM BIT 10	86		
7B7	FRM BIT 11	91		
7B7	FRM BIT 12	90		
7B7	FRM BIT 13	104		
7B7	FRM BIT 14	100		
ØV	ØV		GND	
1C1	MB2	137	A10	C5 1Ø ØV

A9 15 R2 1K +5V MB1 1C1 1K R3 +5V

NOTE: USE 44A501572-002 FOR T-200 TERMINAL (U22A ELEM.) USE 44A501570-001 FOR T340 TERMINAL. (U22B ELEM.) SOCKET COMPATIBLE FOR BOTH PARTS.

FRAME DATA

DATA IN

7A7	FRM BIT 7	8	UDØ
7A7	FRM BIT 8	7	UD1
7A7	FRM BIT 9	6	UD2
7A7	FRM BIT 10	5	UD3
7B7	FRM BIT 11	4	UD4
7B7	FRM BIT 12	3	UD5
7B7	FRM BIT 13	2	UD6
7B7	FRM BIT 14	1	UD7

U41 8T32 ØØ1

BIC BOC

7D4 LD PORT 1Ø PU4 D5

MEMORY SELECTION

MEM SEL

8	121	PRT INT	5E3
7	113	RAM PG 1	4C3
6	117	RAM PGØ	4C3
5	62	FILL 16	8C1
4	61	FILL 8	8C1
3	60	FILL 4	8D1
2		FILL 2	8D1
1	59	FILL 1	8D1

(58)

U39 8T32 ØØ4

BIC BOC

D5 PU4 1Ø 9 ØV

2B5 IVØ IV1 IV2 IV3 IV4 IV5 IV6 IV7

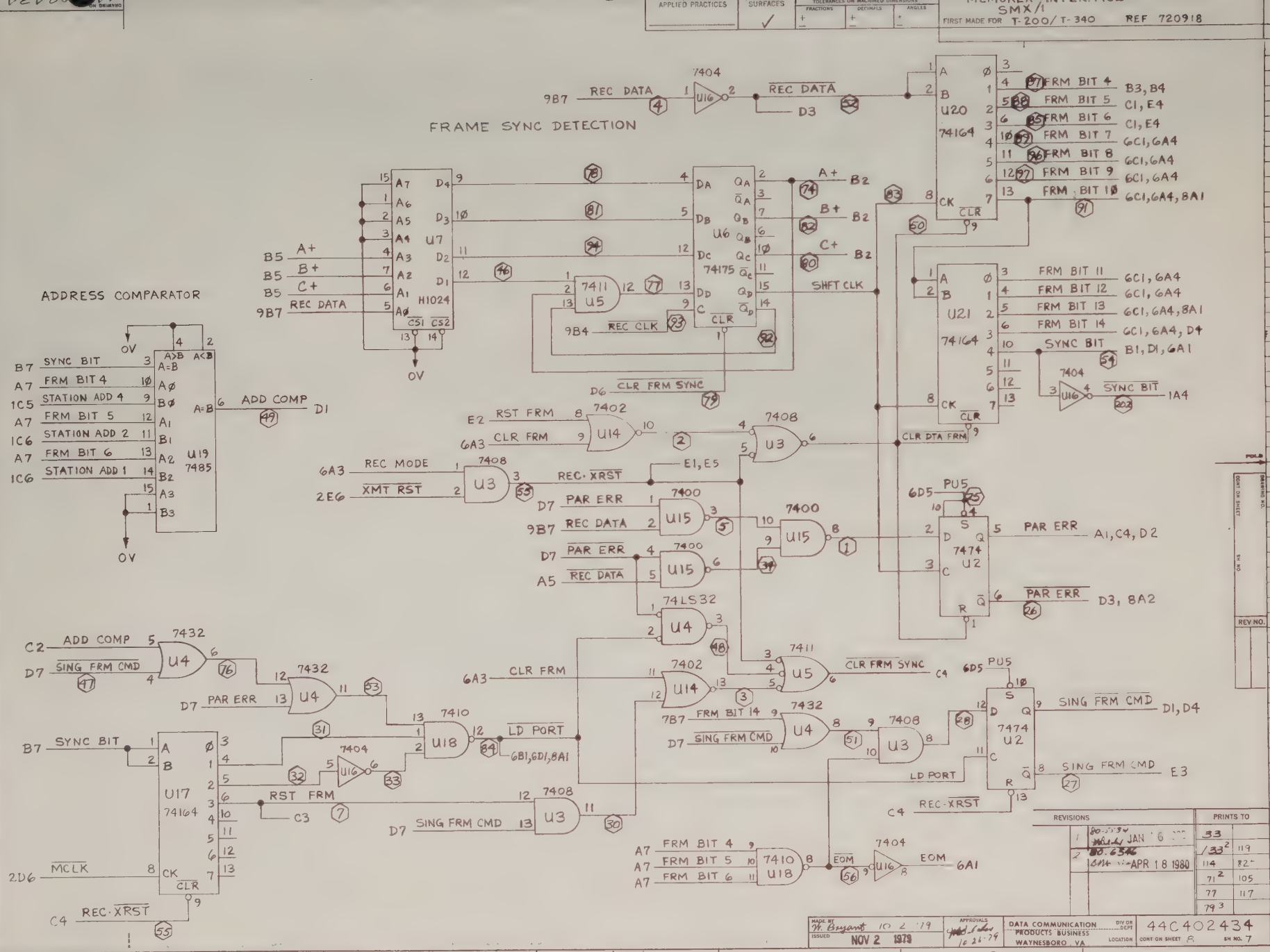
2C5 LB MCLK WC SC

+5V

2³	PU1	1K	R7
4²,5⁷	PU2	1K	R28
2,3⁶,5²	PU3	1K	R22
6⁴	PU4	1K	R6
7²	PU5	1K	R4
8⁶	PU6	1K	R5
9⁴	PU7 (125)	1K	R12
1C6	STATION ADD 4	1K	R25
1C6	STATION ADD 2	1K	R26
1C6	STATION ADD 1	1K	R27

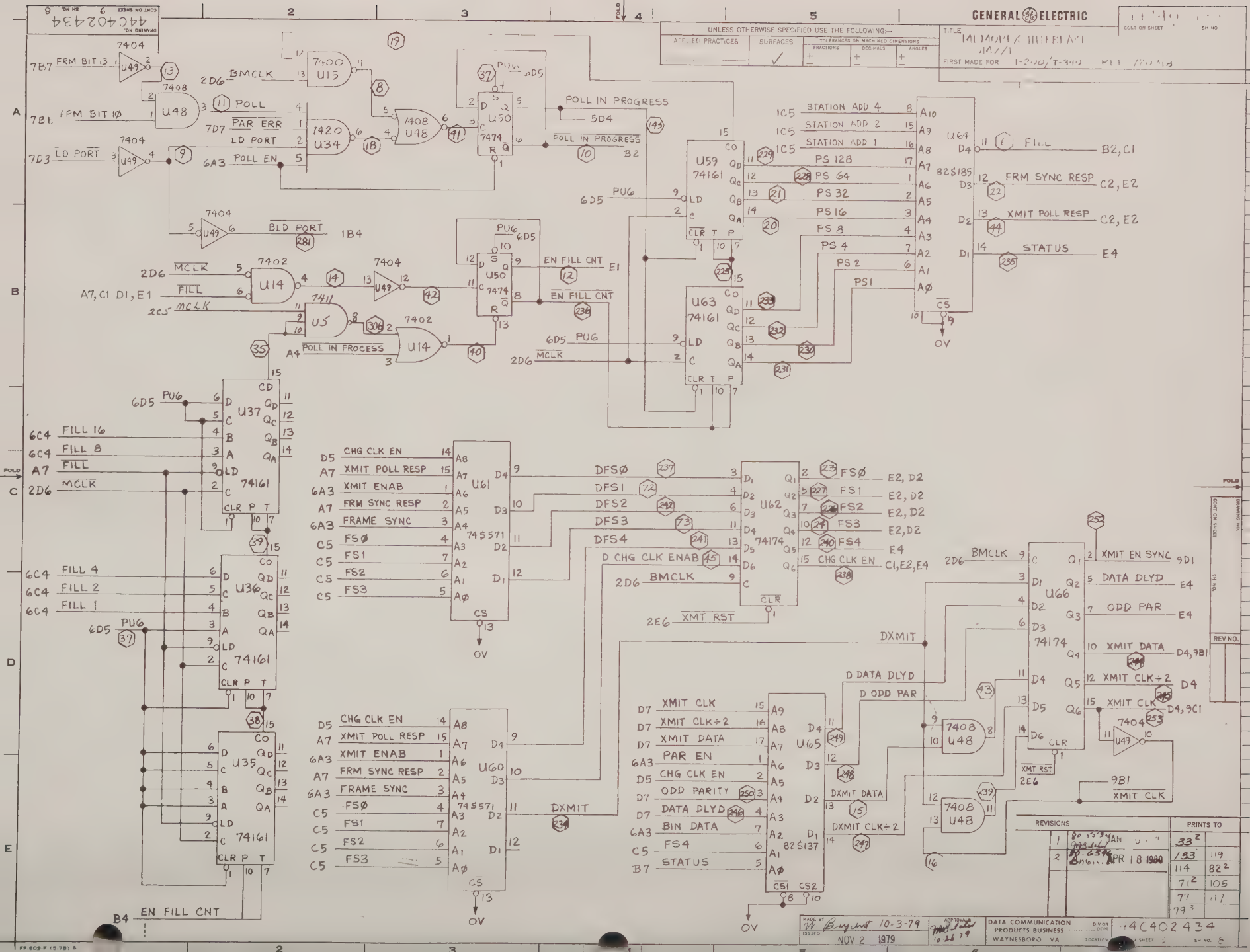
REVISIONS
1 80-6346 APR 18 1980

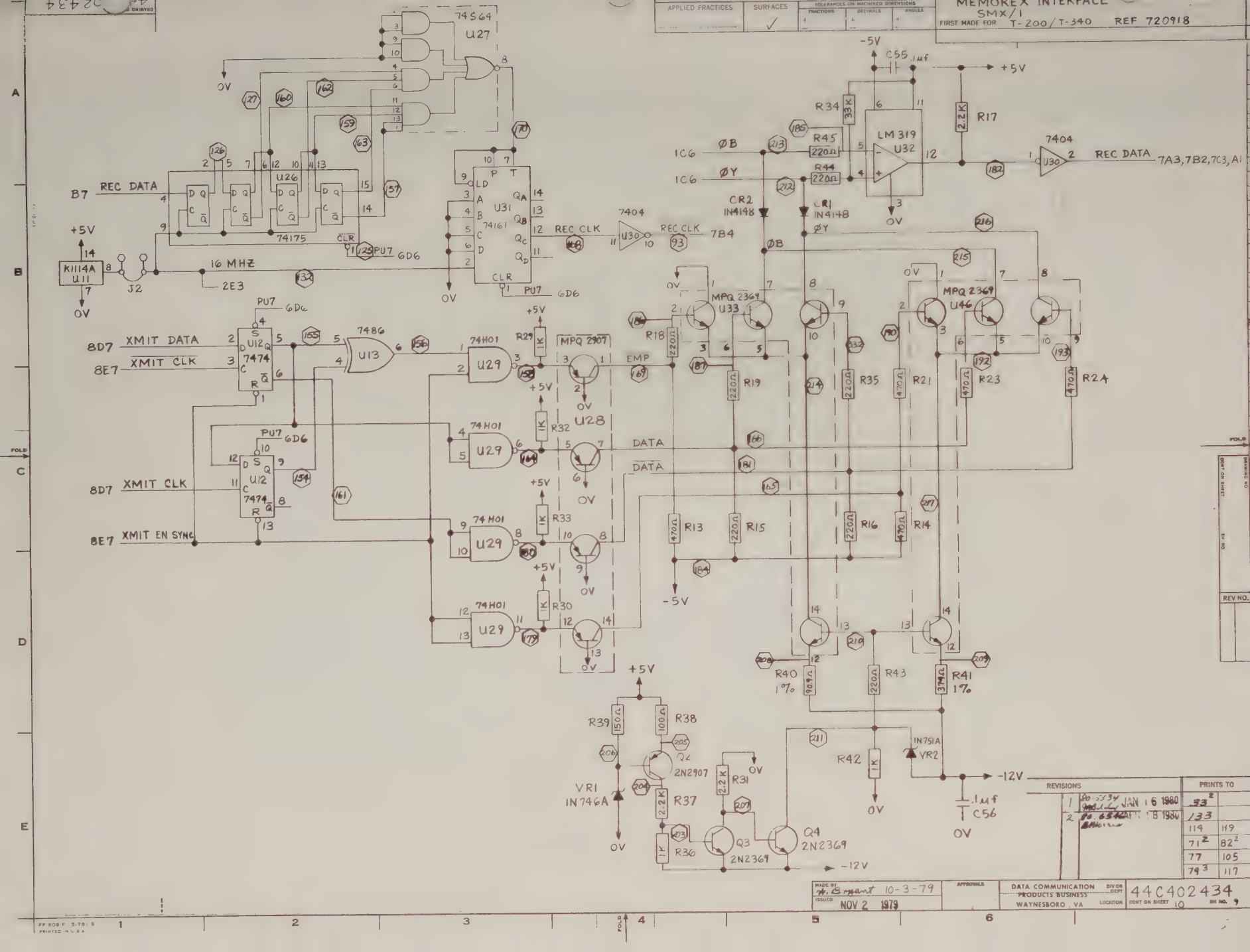
PRINTS TO
33² | 133 | 119 | 114 | 82² | 71² | 105 | 77 | 117 | 79³



REVISIONS		PRINTS TO	
1	80-5594 JAN 6 [illegible]	33	
2	80-6346 GMA [illegible] APR 18 1980	133 2	119
		114	82
		71 2	105
		77	117
		79 3	

MADE BY W. Bryant 10 2 '79 ISSUED NOV 2 1979
APPROVALS 10 26 79
DATA COMMUNICATION PRODUCTS BUSINESS DIV OR DEPT
WAYNESBORO, VA LOCATION
CONT ON SHEET 8
44C402434 SH NO. 7


GENERAL ELECTRIC
DRAWING NO. 44C4024234
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—
DATA COMMUNICATION PRODUCTS BUSINESS
WAYNESBORO VA
44C402434
REVISIONS
PRINTS TO
7404 U49
7400 U15
7408 U48
7420 U34
7474 U50
74161 U59
74161 U63
1420 U64
7402 U14
7411 U5
74161 U37
74161 U36
74161 U35
74S571 U61
74S571 U60
74174 U62
74174 U66
82S185
82S137
U65
POLL IN PROGRESS
FILL
FRM SYNC RESP
XMIT POLL RESP
STATUS
EN FILL CNT
XMT RST
DXMIT
D DATA DLYD
D ODD PAR
DXMIT DATA
DXMIT CLK÷2
XMIT EN SYNC
DATA DLYD
ODD PAR
XMIT DATA
XMIT CLK÷2
XMIT CLK
CHG CLK EN
XMIT POLL RESP
XMIT ENAB
FRM SYNC RESP
FRAME SYNC
PAR EN
ODD PARITY
DATA DLYD
BIN DATA
DFSØ
DFS1
DFS2
DFS3
DFS4
D CHG CLK ENAB
FILL 16
FILL 8
FILL 4
FILL 2
FILL 1
MADE BY
APPROVALS
NOV 2 1979
APR 18 1980


MEMOREX INTERFACE
SMX/1
FIRST MADE FOR T-200/T-340 REF 720918
74S64 U27
U26 74175
U31 74161
U11 K1114A
J2
16 MHZ
2E3
B7 REC DATA
REC CLK
7404 U30
7B4
U32 LM319
R34 33K
R17 2.2K
R45 220Ω
R44 220Ω
CR2 IN4148
CR1 IN4148
ØB
ØY
IC6
REC DATA
7A3,7B2,7C3,A1
C55 .1uf
+5V
-5V
0V
MPQ 2369 U33
MPQ 2369 U46
R18 220Ω
R19 220Ω
R35 220Ω
R21 470Ω
R23 470Ω
R24 470Ω
MPQ 2907
U28
EMP
DATA
8D7 XMIT DATA
8E7 XMIT CLK
8D7 XMIT CLK
8E7 XMIT EN SYNC
U12 7474
7486 U13
74H01 U29
R29 1K
R32 1K
R33 1K
R30 1K
R13 470Ω
R15 220Ω
R16 220Ω
R14 470Ω
R40 1% 909Ω
R43 220Ω
R41 1% 3MΩ
R42 1K
IN751A VR2
-12V
C56 .1uf
R39 150Ω
R38 100Ω
Q2 2N2907
R31 2.2K
R37 2.2K
VR1 IN746A
R36 1K
Q3 2N2369
Q4 2N2369
REVISIONS
PRINTS TO
DATA COMMUNICATION PRODUCTS BUSINESS WAYNESBORO, VA
44C402434
MADE BY M. Bryant 10-3-79
ISSUED NOV 2 1979
APPROVALS

GENERAL ELECTRIC

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:— APPLIED PRACTICES | SURFACES ✓ | TOLERANCES ON MACHINED DIMENSIONS: FRACTIONS ± | DECIMALS ± | ANGLES ±

TITLE: IAI MOD I / III INTERFACE
CIM / I
FIRST MADE FOR T 200, T 340

CONT ON SHEET SH NO.

ELEMENTS NOT USED PINS GROUNDED

"U" NUMBER	IDENT.	OV	+5	-5	-12		
1	SPARE						
2	7474	7	14				7D6
3	7408	7	14				7D3
4	7432	7	14				7D2
5	7411	7	14				7B4
6	74175	8	16				7B5
7	H1024	1,2,3 /8,14,15	16				7B3
8	8T26A	8	16				4A3
9	8T26A	8	16				4B3
10							
11	R1114A	7	14				9B1
12	7474	7	14				9C2
13	7486	1,2,3,8 /10,12,13	14			(3) 1,2,9,10 12,13	9B2
14	7402	7	14				8B2,7D4
15	7400	7	14				8A2,7C4
16	7404	7	14				2D5
17	74164	7	14				7E2
18	7410	7	14				7D3,4D2
19	7485	1,2,4 /8,15	16				7C2
20	74164	7	14				7A7
21	74164	7	14				7C7
22	74S571 T300 8ES181 T340	9/10	18/16				6A-C5
23	2148-3	8/9	18				4E5
24	2148-3	8/9	18				4C5
		7	14				
26	74175	8	16				9A2
27	74S64	7,2,3, /9,10	14				9A3
28	MPQ 2907	13,2,6, /9					9C4
29	74H01	7	14				9C3
30	7414	7	14				5B2,2D3
31	74161	3,4,5 /6,8	16				9B3
32	LM 319	3,8,9,10	11			(1)	9A6
33	MPQ2369	1					9B5
34	7420	7,9,10 /12,13	14			(1)	8A2
35	74161	8	16				8E2
36	74161	8	16				8D2

INPUT PINS NOT USED GROUNDED

"U" NUMBER	IDENT.	OV	+5	-5	-12		
37	74161	8	16				8C2
38	8T32-ØØ3	9,12	24				6B3
39	8T32-ØØ4	9,12	24				6C3
40	8T32-ØØØ	12	24				6B2
41	8T31-Ø01	12	24				6C2
42	8T31-	9,12	24				4C3
43	7400	1,2,7	14			1, 2, 7	5E2
44	7474	2,7	14				5E4, 2E5
45	7404	8,9	16			1, 11, 13	5C4
46	MPQ 2369	1					9B6
47	74S260	4-7-10	14				5B4, 4E2
48	7408	7	14				8A1, 8A2
49	7404	7	14				5E5, 8B2
50	7474	7	14				8B3
51	82S181	12	24				3B2
52	82S181	12,21	24				3B3
53	82S181	12,20	24				3B4
54	82S181	12,20,21	24				3B6
55	MPU 8X300	12	37				2C4
56	74S74	7	14				2D3, 5C5
56A	74161	8	16				5C5
57	8T32-Ø09	10,12	24				5D5
58	8T32-ØØ2	12	24				5B5
59	74161	8	16				8A4
60	74S571	8	16				8E3
61	74S571	8	16				8C3
62	74174	8	16				8C4
63	74161	8	16				8B3
64	82S185	8,9,10	16				8B6
65	82S137	8,9,10	16				8D5
66	74174	8	16				8D6
67	82S181	12	24				3D2
68	82S181	12,21	24				3D3
69	82S181	12,20	24				3D4
70	82S181	12,20,21	24				3D6
71	8T32-Ø05	12	24				5B3
72	8T32-Ø06	12	24				5C2
73	8T32-ØØ7	12	24				5E2
74	8T32-ØØ8	9,12	24				5B6

FOLD

DRAWING NO. CONT ON SHEET SH NO.

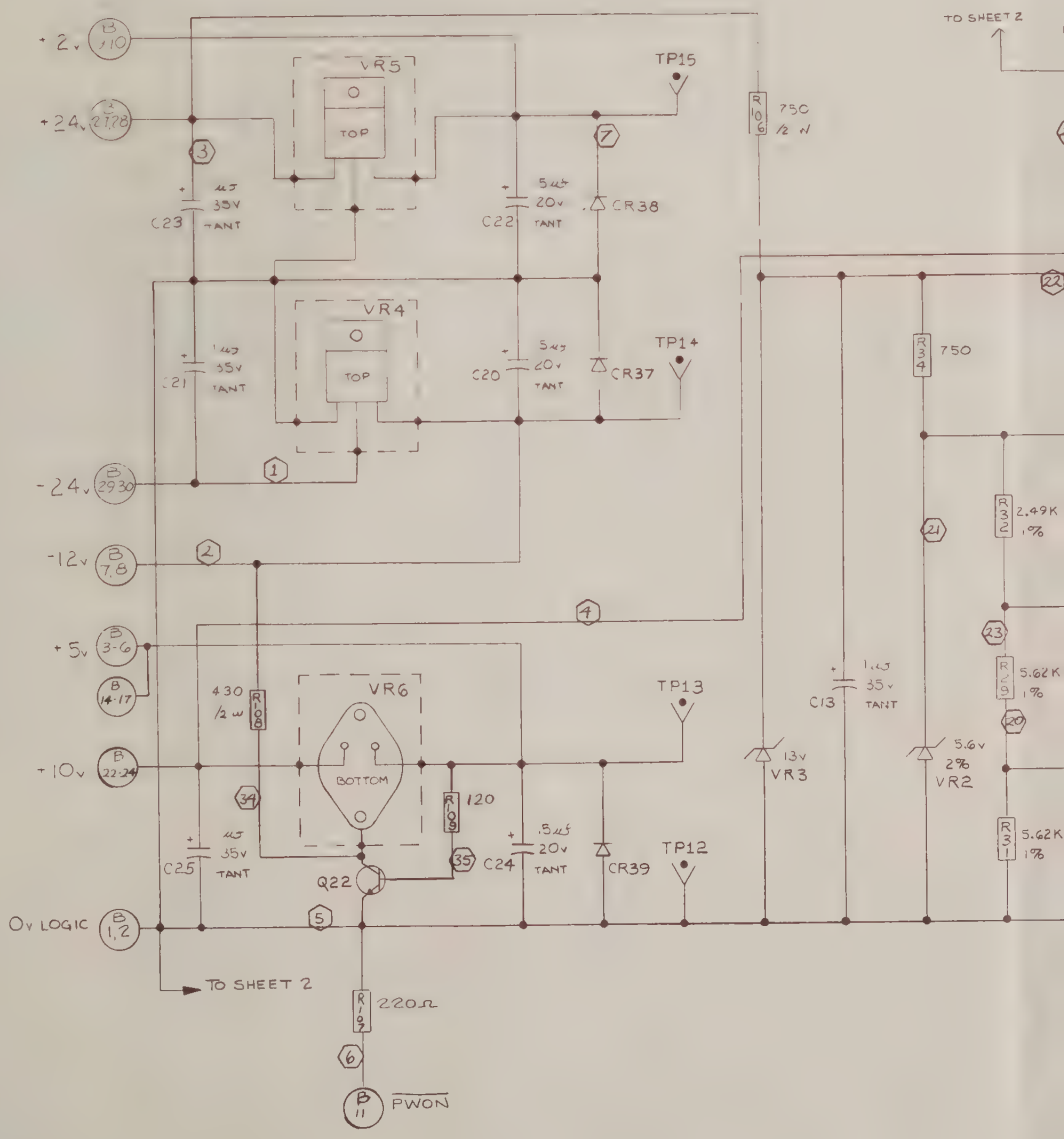
REV NO.

REVISIONS		PRINTS TO	
1	JAN 16 1980	97 3	
		113 2	119
		114	82 2
		71	105
		77	117
		79 3	

MADE BY W. Bryant 10-11 79 ISSUED NOV 2 1979 APPROVED

DATA COMMUNICATION PRODUCTS BUSINESS DIV OR DEPT WAYNESBORO, VA. LOCATION

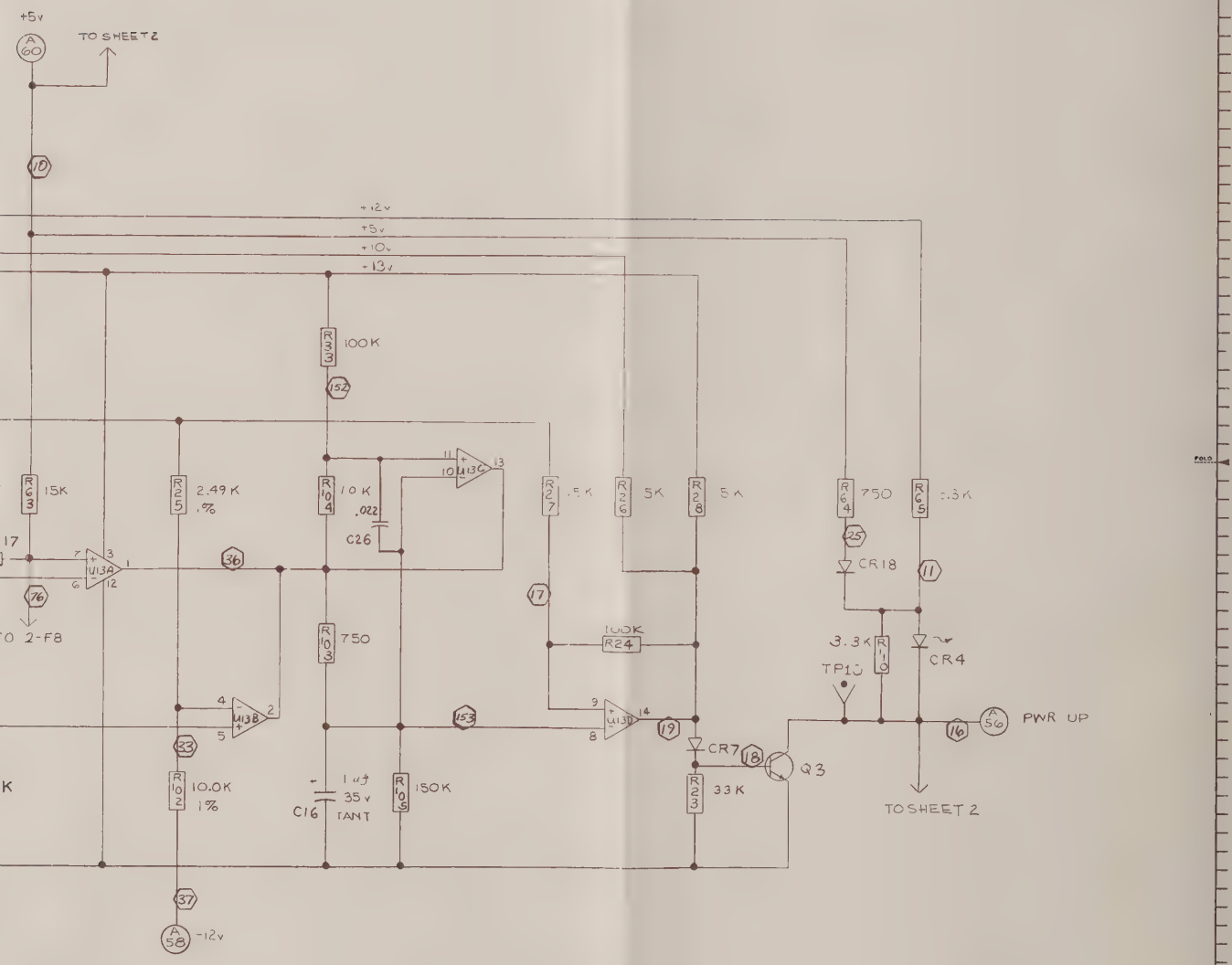
44C402434 SHEET FNL SH NO. 10


+2v
+24v
-24v
-12v
+5v
+10v
0v LOGIC
VR5
VR4
VR6
TOP
BOTTOM
C23
C21
C22
C20
C25
C24
C13
CR38
CR37
CR39
TP15
TP14
TP13
TP12
Q22
R106
R108
R109
R107
R34
R32
R31
VR3
VR2
750
2.49K
5.62K
120
220Ω
430
13v
5.6v
2%
PWON
TO SHEET 2
TO SHEET 2

GENERAL ELECTRIC 44D401720 CONT ON SHEET 2 SH NO 1

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:— APPLIED PRACTICES: — SURFACES: ✓ TOLERANCES ON MACHINED DIMENSIONS: FRACTIONS ± — DECIMALS ± — ANGLES ± — REV NO. 44D401720 CONT ON SHEET 2 SH NO. 1

TITLE: SPWD ELEMENTARY
FIRST MADE FOR TN200
VOLTAGE REGULATORS AND LOW VOLTAGE DETECTOR
FCF: 44C417372

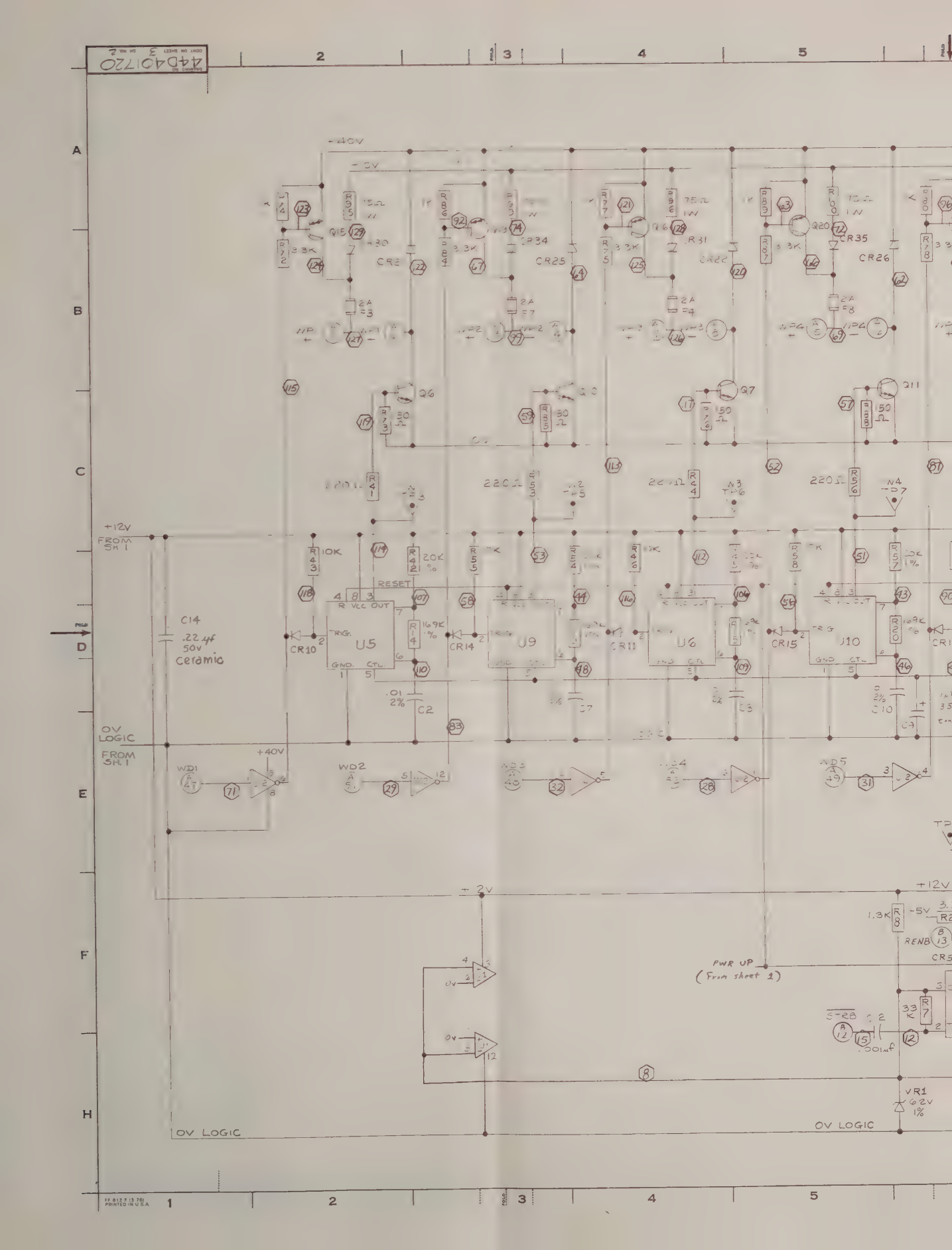


NOTES:
1. ⬡ FIXIT PADS FOR FACTORY TEST ONLY.

G01

REVISIONS		PRINTS TO	
1	77-6640 S. POPE MAR 14	133	77²
2	80-2338 B. Marrs APR 25 1980	114	79³
		119	82²
			105
			117
			71²

MADE BY D. A. ULMAN ISSUED SEP 19 1977 APPROVALS 9/15/77 DATA COMMUNICATION PRODUCTS DEPT. DIV OR DEPT WAYNESBORO, VA. LOCATION 44D401720 CONT ON SHEET 2 SH NO 1


+40V
-5V
+12V
FROM SH 1
OV LOGIC
FROM SH 1
C14
.22 µf
50V
Ceramic
RESET
U5
U9
U6
U10
CR10
CR14
CR11
CR15
C2
.01
2%
C7
C3
C10
Q6
Q7
Q11
Q15
Q20
CR2
CR25
CR35
CR26
CR22
R31
220Ω
WD1
WD2
WD3
WD4
WD5
+12V
-5V
1.3K
RENB
PWR UP
(From sheet 1)
S-28
.001µf
33K
VR1
6.2V
1%
OV LOGIC
OV LOGIC

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING: — APPLIED PRACTICES: SURFACES: √ TOLERANCES ON MACHINED DIMENSIONS: FRACTIONS ± DECIMALS ± ANGLES ±

REV NO. 44D401720 CONT ON SHEET 3 SH NO. 2

TITLE: SPWD ELEMENTARY
FIRST MADE FOR TN 200
PRINT HEAD DRIVERS

FCF: 44C417572

-40V
+10V
+40V
+12V
0V POWER
RESET
C.V LOGIC

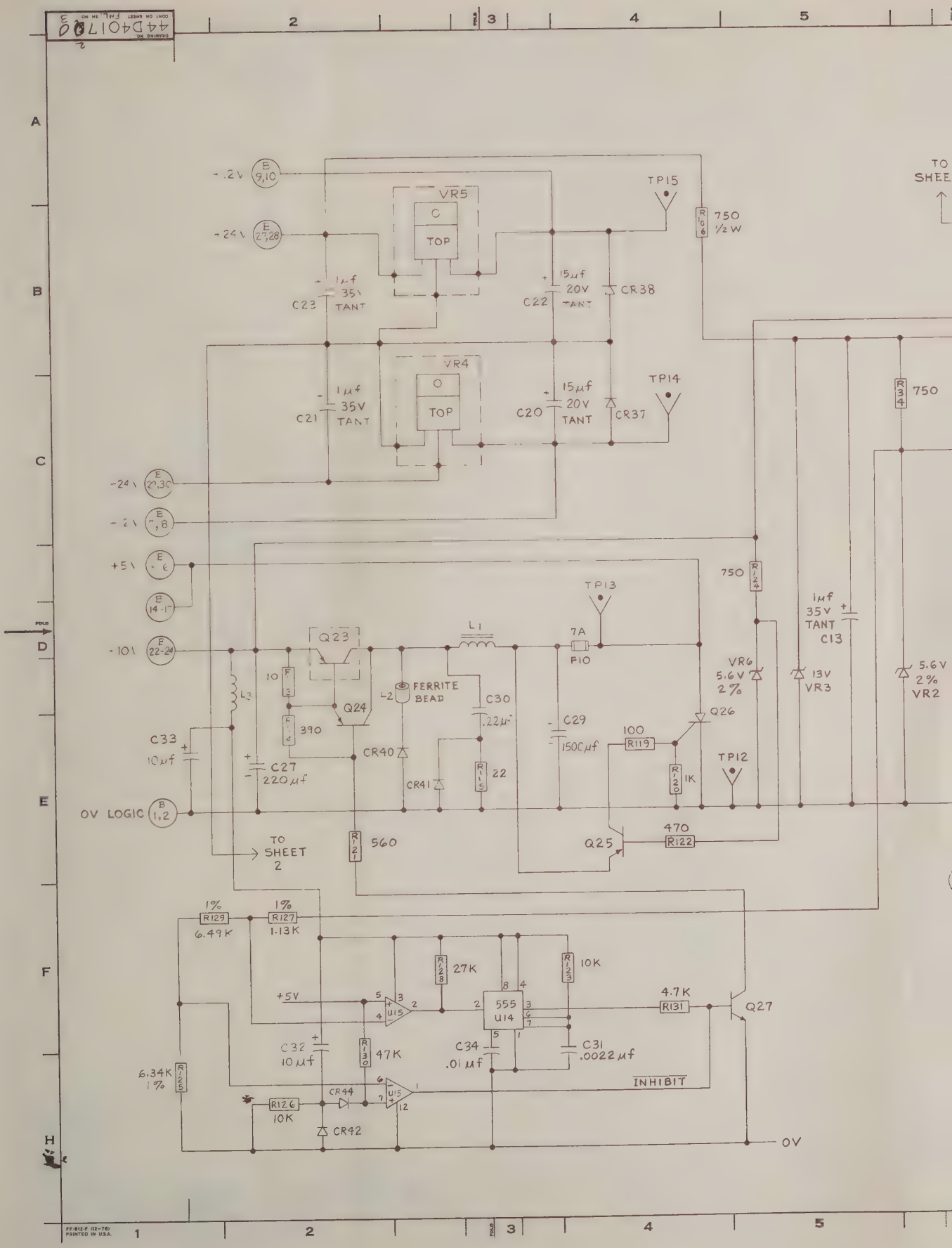
UNUSED SIGNAL	PIN
KEYA	A27
KEYB	B15
STALL	A55

NOTES:
1. THE FOLLOWING COMPONENTS ARE OMITTED ON G01:
R9-13, 16, 35-40, 66-71, 93, 94
CR 8, 9, 19, 20, 28, 29
Q 1, 2, 4, 5, 13, 14
F1, F2
C1, C4
U3, U4
2. ⬡ FIXIT PADS FOR FACTORY TEST ONLY.

G01

REVISIONS		PRINTS TO
1	77-6640 S. POPE MAR 7 1980	133 772
2	ADD INSERTER ID TO EACH U12 K.R CRAIL MAR 7 1980	114 793
3	80-G548 APR 25 1980 S. MARRIS	119 82²
		105
		117
		71²

MADE BY: Frank St Ellen Jan 20 1977
ISSUED: SEP 19 1977
APPROVALS: M. J. S. 9/15/77
DATA COMMUNICATION PRODUCTS DEPT. WAYNESBORO, VA.
DIV OR DEPT / LOCATION
44D401720 CONT ON SHEET 3 SH NO. 2


-.2V
+24V
VR5
C
TOP
C23 1µf 35V TANT
C22 15µf 20V TANT
CR38
TP15
R106 750 1/2W
VR4
O
TOP
C21 1µf 35V TANT
C20 15µf 20V TANT
CR37
TP14
R134 750
-24V
-2V
+5V
-10V
OV LOGIC
TO SHEET 2
Q23
L1
7A
F10
TP13
750 R124
1µf 35V TANT C13
VR6 5.6V 2%
13V VR3
5.6V 2% VR2
10 F3
390 F4
L3
C33 10µf
C27 220µf
L2 FERRITE BEAD
Q24
C30 .22µf
C29 1500µf
CR40
CR41
R115 22
100 R119
Q26
1K R120
TP12
470 R122
Q25
560 R21
1% R129 6.49K
1% R127 1.13K
27K R128
10K R123
+5V
U15
555 U14
4.7K R131
Q27
C32 10µf
47K R130
C34 .01µf
C31 .0022µf
6.34K 1% R125
R126 10K
CR44
CR42
INHIBIT
OV

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—
APPLIED PRACTICES • | SURFACES ✓ | TOLERANCES ON MACHINED DIMENSIONS: FRACTIONS ± | DECIMALS ± | ANGLES ±

REV NO. 44D401720 CONT ON SHEET FNL. SH NO. 3

TITLE SPWD/3 ELEMENTARY
FIRST MADE FOR TN200 (MEMOREX)
VOLTAGE REGULATORS AND LOW VOLTAGE DETECTOR

G03

+12V
+5V
+10V
+13V

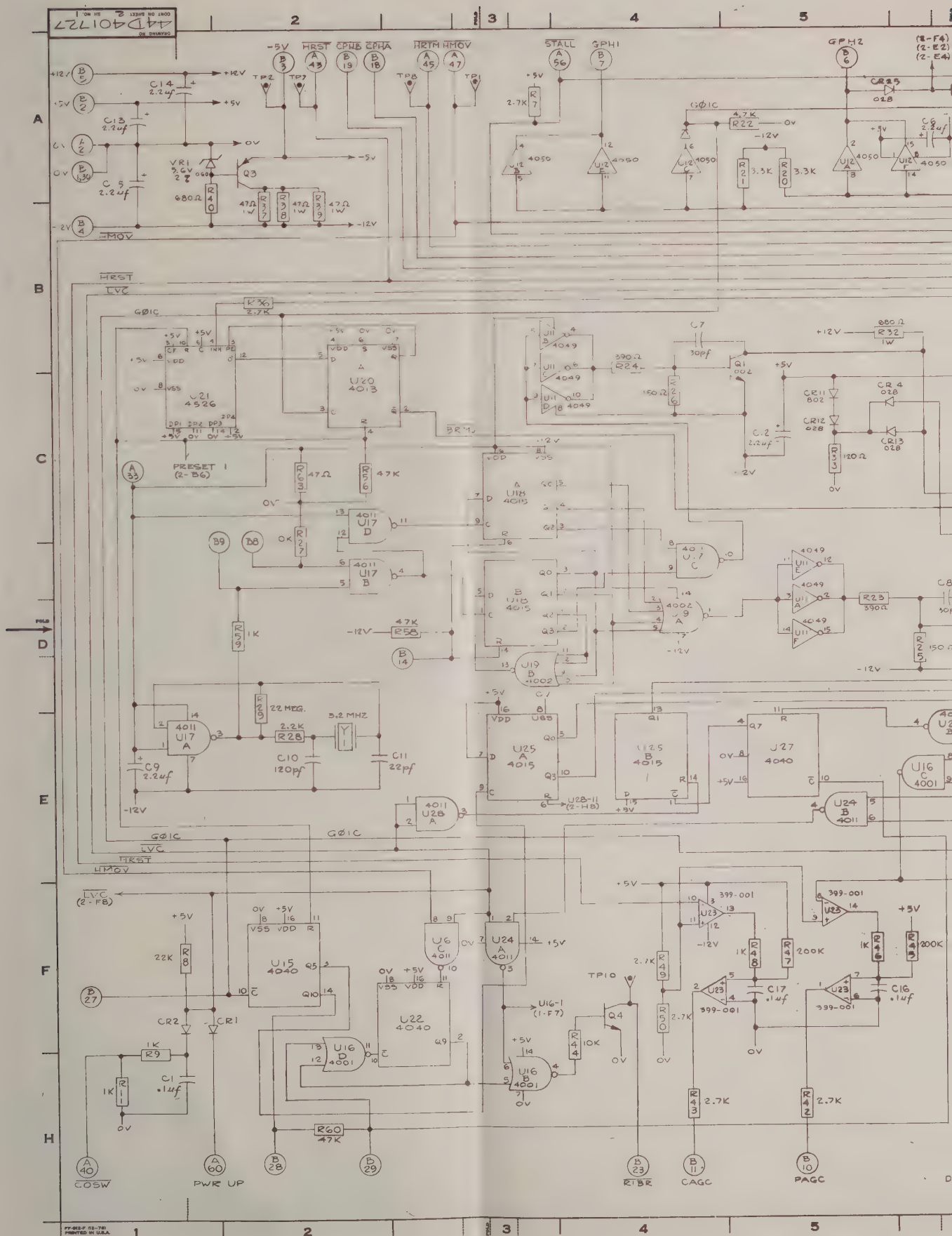
A59 +12V
A60 +5V
TO SHEET 2

R33 100K

R62 4.22K 1%
R63 15K
R25 2.49K 1%
R104 10K
C26 .022μf
U13C
R27 15K
R26 15K
R28 15K
R64 750
R65 3.3K
CR18
CR17
U13A
TO 2-F8
R103 750
R24 100K
3.3K R110
CR4
TP10
A56 PWR UP
U13B
U13D
CR7
Q3
R23 33K
TO SHEET 2
R30 2.67K 1%
R102 10.0K 1%
C16 1μf 35V TANT
R101 150K
A58 -12V

REVISIONS		PRINTS TO	
1	TR-6570 T. BARR FEB 26 1980		119
		114	
		71 2	105
		77 2	117
		79 3	133

MADE BY W. Bryant Jan 12 1979 ISSUED NOV 2 1979
APPROVALS
DATA COMMUNICATION PRODUCTS BUSINESS WAYNESBORO, VA.
DIV OR DEPT LOCATION
44D401720 CONT ON SHEET FNL. SH NO. 3


-5V
HRST
CPHB
CPHA
HRTM
HMOV
STALL
GPHI
GPHZ
+12V
+5V
0V
-12V
-HMOV
HRST
LVC
GØIC
PRESET 1
(2-B6)
BRMV
22 MEG.
2.2K
3.2 MHZ
C9 2.2uf
C10 120pf
C11 22pf
U28-11
(2-H8)
LVC
(2-F8)
TP10
U16-1
(1-F7)
COSW
PWR UP
RIBR
CAGC
PAGC

GENERAL ELECTRIC

44D401727 CONT ON SHEET 3 SH NO. 2

DEV NO. 44D401727 CONT ON SHEET 2 SH NO 1

TITLE: SCL SERVO CONTROL LOGIC BOARD

FIRST MADE FOR TN 200

FCF: 44C417575

G04

CAT CRT CAEC CREC CAEF CREF

(A18) (A22) (A16) (A26) (A20) (A24)

CAT (2-E4) CRT (2-H4)

STALL
GØIC
TO U7 PIN 3 → TO (2-A4)
CHADD
TO U1, U4, PIN 15

+5V 0V -5V

2.7K R53

U26B 4015

C3 2.2uf

U2 4050 · U8 4050 · U8 4050 · U8 4050 · U8 4050 · U8 4050

U24 4011

SRVO CARR AGC

R14 2.7K (6) · R17 · R13 · R16 · R15 · R18

TO (2-C1)

NOTES

* = CONNECTED ON MOTHER BOARD.
UNUSED PACK NUMBERS:
U2, U10, U13

+12V · 680Ω 1W R31 · Q2 302 · C5 2.2uf

U9

INC → (2-F6) · DEC → (2-E6)

TO (2-D)

U28 C 4011

HSZ1 (A51) · HSZ2 (A49) · HOSPD (B5*) (A59) · HTRAV (B6*) (A37) · HREV (B2*) (A36) · HR1 (B3*) (A55) · HR2 (B4*) (A57)

SRVO PART

C2 2.2uf

R32 10K

R6 2.7K (6) · R3 · R4 · R1 · R2 · R5

U5

R19 2.7K

U26A 4015

U3 4050 · U3 4050 · U3 4050 · U3 4050 · U3 4050 · U3 4050

TP4 TP3

VRST (A5) · VHOV (A18) · VRTM (A21) · PPHB (B21) · PPHA (B20)

PHZT (B26) · PAT (A4) · PRT (A6) · PAEC (A14) · PREC (A12) · PAEF (A10) · PREF (A8)

VBSZ1 (A41) (B5*) · VBSZ2 (A39) (B1*) · VREV (A17) (B2*)

REVISIONS	PRINTS TO	
	113 2	77
	114	79 3
	38 2	82 2
	119	05
	71	17

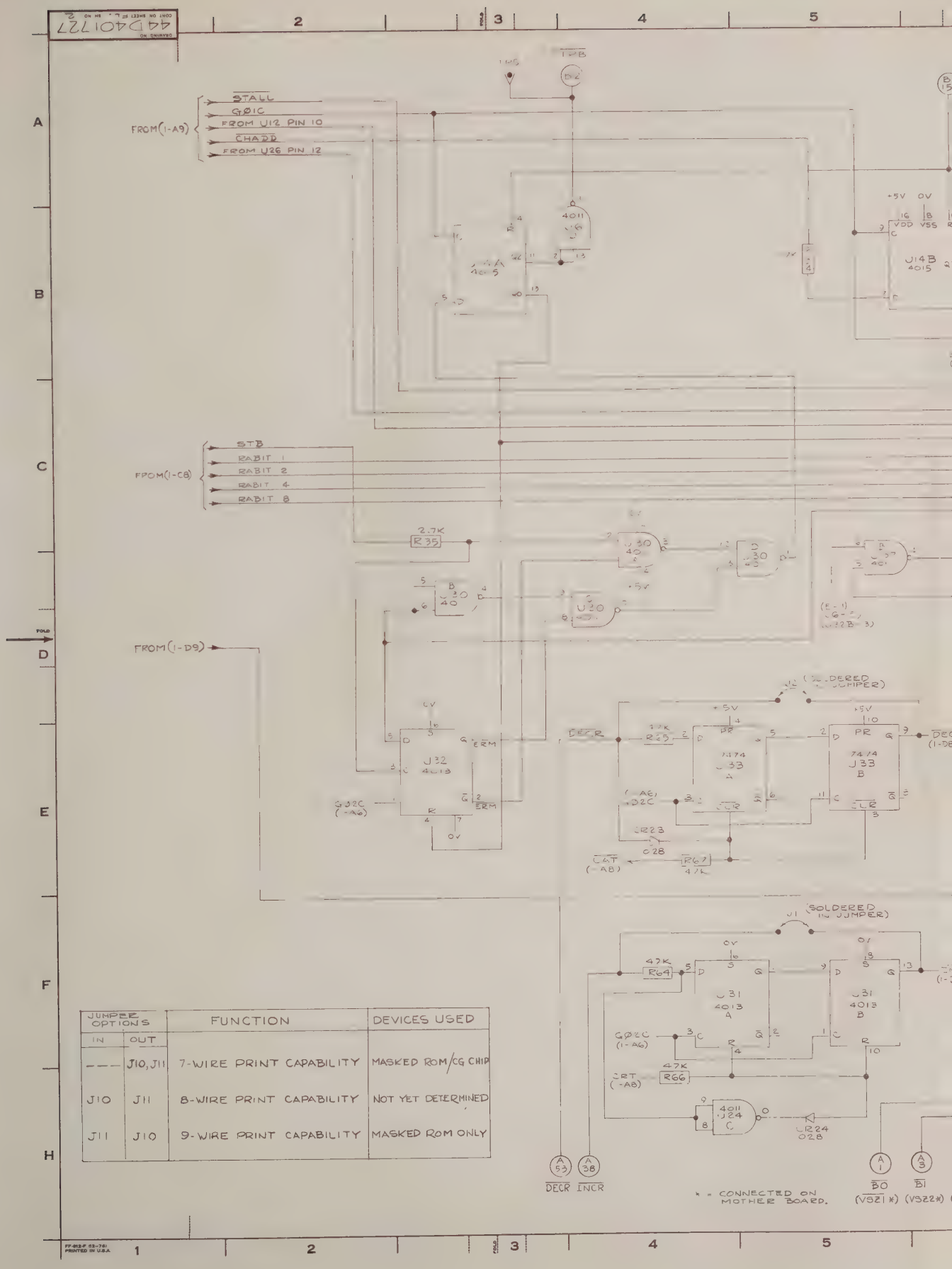
MADE BY R. Umbdenstock Nov. 6, 1979

APPROVALS R. Umbdenstock 11/6/79

DATA COMMUNICATION DIV OR PRODUCT-BUSINESS ..... DEPT
WAYNESBORO, VA. LOCATION

44D401727 CONT ON SHEET 3 SH NO. 2

15



JUMPER OPTIONS		FUNCTION	DEVICES USED
IN	OUT		
----	J10, J11	7-WIRE PRINT CAPABILITY	MASKED ROM/CG CHIP
J10	J11	8-WIRE PRINT CAPABILITY	NOT YET DETERMINED
J11	J10	9-WIRE PRINT CAPABILITY	MASKED ROM ONLY

FF-012-F 03-761
PRINTED IN U.S.A.

GENERAL ELECTRIC

44D401727 CONT ON SHEET FYL SH NO. 3

REV NO 44D401727 CONT ON SHEET FL SH NO. 2

TITLE SCL SERVO CONTROL LOGIC BOARD

FIRST MADE FOR TN200

FCF : 44C417575

G04

CHAD B 22 TP9

CFOT B 24

4.7K R 5 CR22

U20B 4013

+5V S1 1.12 OK OV

U32B 4013 (1-AG) G220 REN B

4011 U6 A

R70

+12V OV +5V

RABIT 7 RABIT 5 RABIT 4 RABIT 3

CG J7

U4 4013 DATA OUT DISABLE DISABLE

WG B1 B2 B3 B4 B5 B6 B7

U1 4076

U36 LS244

U35 LS244

J10 J11 J3 J4 J5 J6 J7 J8 J9

EPROM U34 2716 OR 2516 OR 2732 OR 2532

RABIT 6 RABIT 4 RABIT 2 RABIT 1

U37 401 A

10K R69

4011 U6 B

(D5) (U37-6)

C.8 .01uf B17

30K R62

U29 14528

(1-F1) U37 4011.1

RENB (B11)

G01C (1-A9) U37 4011.2

U38 4013

33K R61

Q5 OQB

U24-3 (1-F3)

U16A 4001

U28D 4011

J25-6 (1-E4)

	J3	J4	J5	J6	J7	J8	J9
2716/2516	OUT	OUT	IN	IN	OUT	OUT	IN
2732	IN	OUT	IN	*	*	*	OUT
2532	OUT	IN	OUT	*	*	*	IN

*	J6	J7	J8
FONT A	IN	OUT	OUT
FONT B	OUT	IN	OUT
FONT A OR B CONTROLLED BY DIP?	OUT	OUT	IN

UNUSED SIGNALS	PIN
KEY A	A29
KEY B	B16
WD9	A23

G04

REVISIONS

1 79-G360 C.7 NOV 15 1979

2 80-3011 KBS JUN 6 1980

PRINTS TO

113	77
4	79
	82
119	105
71	117

A7 B3 (HR1*) A9 B4 (HR2*) A11 B5 (HOSPD*) A13 B6 (HTRAV*) A5 B7 A58 WG

DRAWN BY Nov. 6, 1979 ISSUED NOV 7, 1979

APPROVALS A.B. Cruickshank 11/6/79

DATA COMMUNICATION PRODUCTS BUSINESS DIV. OR DEPT WAYNESBORO, VA LOCATION

44D401727 CONT ON SHEET FNL SH NO. 3

Data Communication Products Business Department • General Electric Company
Waynesboro, Virginia 22980, USA

GENERAL ELECTRIC

MP MASTER
MA32542